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Text Part Number: 78EE117C99-173844303

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In your requests please include the following reference number 78EE117C99-173844303

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1.1.1 Available under license :

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   } else {
    $("#toTop").fadeOut();
   }
  });

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  });

  });
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Skip to main content

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<!-- #header-top-inside -->

<!-- #header-top-left -->

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<li class="leaf">From the Board
<li class="leaf">Contact
<li class="last leaf">Donate

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<!-- #header-top-right -->

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<!-- EOF: #header-top-inside -->

<!-- EOF: #header-top -->

<!-- header -->
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<!-- #header-inside -->

Open Source Initiative

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            <div class="col-md-4">


            </div>
          </div>
        </div>
        <!-- EOF: #header-inside -->

    </div>
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<!-- EOF: #header -->

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<li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">License Review Process
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<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct
<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct
<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums
<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy on Public Communications and Archives
<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers
<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki
<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store
<li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent">Resources
<li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">FAQ
<li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">OSI Board Blog
<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Getting Help
<li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Bibliography
<li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Open Source Case for Business
<li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children">Working Groups
<li id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children">Open Source Education
<li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">News & Events
<li id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">Newsletters
<li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children">Events

                                </nav>

      <!-- EOF: #main-navigation-inside -->

<!-- EOF: #main-navigation -->

```
<!-- #page -->
<div id="page" class="clearfix">


  <!-- #main-content -->
  <div id="main-content">
     <div class="container">

        <!-- #messages-console -->
                <!-- EOF: #messages-console -->

        <div class="row">



           <section class="col-md-12">

              <!-- #main -->
              <div id="main" class="clearfix">



                 <!-- EOF:#content-wrapper -->
                 <div id="content-wrapper">

                                                      <h1 class="page-title">The MIT License</h1>


                    <!-- #tabs -->
                                        <div class="tabs">
                                          </div>
                                     <!-- EOF: #tabs -->

                    <!-- #action links -->
                                     <!-- EOF: #action links -->

                     <div class="region region-content">
  <div id="block-system-main" class="block block-system clearfix">


<div class="content">
  <article id="node-66" class="node node-page clearfix">


<div class="content">
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
```

items">
SPDX short identifier: MIT

<button onclick="myFunction()">Further resources on the MIT License</button>

<script>
<!--//--><![CDATA[// ><!--

function myFunction() {
  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it does not endorse any content, contributors or license interpretations from these websites. Any links to these resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor any of the mentioned resources, but instead provides them as separate third-party resource to help inform your opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
      x = "
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<a href=http://www.gnu.org/licenses/license-list.en.html>GNU License List
<a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License List
<a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff
Choosealicense";
  } else {
      x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}

//--><!]]>
</script>

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</article>

                <!-- EOF:#content-wrapper -->

              <!-- EOF:#main -->

            </section>

  <!-- EOF:#main-content -->

<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">

    <!-- #subfooter-inside -->

          <!-- #subfooter-left -->

<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src='//api.flattr.com/button/view/?uid=osi&url=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.insertBefore(f,s);})('fbwiuwz');
//--><!]]>
</script>

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```
</div>
<div id="block-block-7" class="block block-block clearfix">


 <div class="content">
   <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--//--><![CDATA[// ><!--


//--><!]]>
</script><script type="text/javascript">
<!--//--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//--><!]]>
</script>  </div>
</div>
 </div>

                </div>
                <!-- EOF: #subfooter-left -->
              </div>
            </div>
        </div>
        <!-- EOF: #subfooter-inside -->

   </div>
</footer>
<!-- EOF:#subfooter -->
 </body>
</html>
```

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```

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*/
```

1.5 args4j 2.0.12

1.6 aspectjweaver 1.8.10

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```
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

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<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
 body {
   size: 8.5in 11.0in;
   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
   }
```

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p {
  margin-left: auto;
  margin-top:  0.5em;
  margin-bottom: 0.5em;
  }
p.list {
 margin-left: 0.5in;
  margin-top:  0.05em;
  margin-bottom: 0.05em;
  }
</style>

</head>

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1.7 batik-all 1.7

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```
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```

The patch is available here:

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 <meta http-equiv="Content-Language" content="en-aus" />
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 <meta name="keywords" content="Legion of the Bouncy Castle, Cryptography, JCE, Java Cryptography Extension, Cryptography Source Code, ASN.1, X.509, Open Source" />
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.29 error_prone_annotations 2.0.18

1.29.1 Available under license :


```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <meta name="description" content="Home page of The Apache Software Foundation">

 <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
 <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
 <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
 <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
 <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
 <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
 <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
 <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
 <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
 <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
 <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
 <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
 <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
 <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
 <link rel="manifest" href="/favicons/manifest.json">
 <link rel="shortcut icon" href="/favicons/favicon.ico">
 <meta name="msapplication-TileColor" content="#603cba">
 <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
 <meta name="msapplication-config" content="/favicons/browserconfig.xml">
 <meta name="theme-color" content="#303284">

 <title>Apache License, Version 2.0</title>
 <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
 <link href="/css/min.bootstrap.css" rel="stylesheet">
 <link href="/css/styles.css" rel="stylesheet">


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```

```
</head>

<body>
<!-- Navigation -->
<header>
 <nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
   <div class="navbar-header">
    <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
     <span class="sr-only">Toggle navigation</span>
     <span class="icon-bar"></span>
     <span class="icon-bar"></span>
     <span class="icon-bar"></span>
    </button>
    <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
   </div>
   <div class="collapse navbar-collapse" id="mainnav-collapse">
    <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &raquo <a
href="/licenses/">Licenses</a></div>
    <ul class="nav navbar-nav navbar-right">
     <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation">Overview</a></li>
      <li><a href="/foundation/members.html">Members</a></li>
      <li><a href="/foundation/how-it-works.html">Process</a></li>
      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/glossary.html">Glossary</a></li>
      <li><a href="/foundation/preFAQ.html">FAQ</a></li>
      <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
     </li>
  <li><a href="/index.html#projects-list">Projects</a></li>
   <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
    <li><a href="http://people.apache.org/">Overview</a></li>
    <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="http://planet.apache.org/">Planet Apache</a></li>
      </ul>
     </li>
     <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
       <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/getinvolved.html">Overview</a></li>
```

```
        <li><a href="http://community.apache.org/">Community Development</a></li>
              <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
          </ul>
    </li>
        <li><a href="/dyn/closer.cgi">Download</a></li>
        <li class="dropdown">
         <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
         <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/contributing.html">Donations</a></li>
        <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
        <li><a href="/foundation/thanks.html">Thanks</a></li>
         </ul>
        </li>
       </ul>
     </div>
   </div>
 </nav>
</header>
<!-- / Navigation -->
<div class="container">
 <div class="row">
       <div class="col-md-6 col-sm-5 col-xs-12">
     <img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
   </div>
   <div class="col-md-3 col-sm-3 col-xs-6">
   <a href="http://apache.org/foundation/contributing.html" title="Support Apache">
     <img src="/images/SupportApache-small.png" style="height: 150px; width: 150px; margin-top: 5px; margin-
bottom: 5px;">
   </a>
   </div>
   <div class="col-md-3 col-sm-4 col-xs-6">
     <div class="input-group" style="margin-bottom: 5px;">
    <script>
 (function() {
   var cx = '005703438322411770421:5mgshgrgx2u';
   var gcse = document.createElement('script');
   gcse.type = 'text/javascript';
   gcse.async = true;
   gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
      '//cse.google.com/cse.js?cx=' + cx;
   var s = document.getElementsByTagName('script')[0];
   s.parentNode.insertBefore(gcse, s);
 })();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
```

The Apache Way
<a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute
ASF Sponsors

<style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre>

<!-- Footer -->

<footer class="bg-primary">

        <h5 class="white">Community</h5>
        <ul class="list-unstyled white" role="menu">
    Overview
    Conferences
    Summer of Code
    Getting Started
    The Apache Way
    Travel Assistance
    Get Involved
    Community FAQ
    Memorials

    <h5 class="white">Innovation</h5>
        <ul class="list-unstyled white" role="menu">
    Incubator
    Labs
    Licensing
    Licensing FAQ
    Trademark Policy
    Contacts

    <h5 class="white">Tech Operations</h5>
       <ul class="list-unstyled white" role="menu">
     Developer Information
     Infrastructure
     Security

```
      <li><a href="http://status.apache.org">Status</a></li>
      <li><a href="/foundation/contact.html">Contacts</a></li>
        </ul>
    </div>

    <div class="col-sm-2">
     <h5 class="white">Press</h5>
       <ul class="list-unstyled white" role="menu">
     <li><a href="/press/">Overview</a></li>
     <li><a href="https://blogs.apache.org/">ASF News</a></li>
     <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
     <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
     <li><a href="/press/#contact">Contacts</a></li>
       </ul>
    </div>

    <div class="col-sm-2">
     <h5 class="white">Legal</h5>
       <ul class="list-unstyled white" role="menu">
     <li><a href="/legal/">Legal Affairs</a></li>
     <li><a href="/licenses/">Licenses</a></li>
     <li><a href="/foundation/marks/">Trademark Policy</a></li>
     <li><a href="/foundation/records/">Public Records</a></li>
         <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
     <li><a href="/licenses/exports/">Export Information</a></li>
     <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
     <li><a href="/foundation/contact.html">Contacts</a></li>
       </ul>
    </div>

    <div class="col-sm-1">
    </div>

   </div>
   <hr class="col-lg-12 hr-white" />
   <div class="row">
    <div class="col-lg-12">
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    </div>
   </div>
  </div>

</footer>

<!-- / Footer -->
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<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

1.30 exp4j 0.3.10

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AppleJavaExtensions
v 1.2

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This is a pluggable jar of stub classes representing the new Apple
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1.35 guava 23.0

1.36 Guava (Google Common Libraries) 14.0.1

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*/
```

1.37 j2objc-annotations 1.1

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```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <meta name="description" content="Home page of The Apache Software Foundation">

 <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
 <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
 <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
 <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
 <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
 <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
 <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
 <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
 <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
 <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
 <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
 <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
 <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
 <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
 <link rel="manifest" href="/favicons/manifest.json">
 <link rel="shortcut icon" href="/favicons/favicon.ico">
 <meta name="msapplication-TileColor" content="#603cba">
 <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
 <meta name="msapplication-config" content="/favicons/browserconfig.xml">
 <meta name="theme-color" content="#303284">
```

```
 <title>Apache License, Version 2.0</title>
 <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
 <link href="/css/min.bootstrap.css" rel="stylesheet">
 <link href="/css/styles.css" rel="stylesheet">


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</head>

<body>
<!-- Navigation -->
<header>
 <nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
   <div class="navbar-header">
    <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
     <span class="sr-only">Toggle navigation</span>
     <span class="icon-bar"></span>
     <span class="icon-bar"></span>
     <span class="icon-bar"></span>
    </button>
    <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
   </div>
   <div class="collapse navbar-collapse" id="mainnav-collapse">
    <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &raquo <a
href="/licenses/">Licenses</a></div>
    <ul class="nav navbar-nav navbar-right">
     <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
     <li><a href="/foundation">Overview</a></li>
     <li><a href="/foundation/members.html">Members</a></li>
     <li><a href="/foundation/how-it-works.html">Process</a></li>
     <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
     <li><a href="/foundation/glossary.html">Glossary</a></li>
     <li><a href="/foundation/preFAQ.html">FAQ</a></li>
     <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
     </li>
```

```
  <li><a href="/index.html#projects-list">Projects</a></li>
    <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
        <ul class="dropdown-menu" role="menu">
      <li><a href="http://people.apache.org/">Overview</a></li>
      <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
      <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
      <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
      <li><a href="http://planet.apache.org/">Planet Apache</a></li>
        </ul>
       </li>
       <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
         <ul class="dropdown-menu" role="menu">
          <li><a href="/foundation/getinvolved.html">Overview</a></li>
       <li><a href="http://community.apache.org/">Community Development</a></li>
             <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
       <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
         </ul>
    </li>
       <li><a href="/dyn/closer.cgi">Download</a></li>
       <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
         <ul class="dropdown-menu" role="menu">
       <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
       <li><a href="/foundation/contributing.html">Donations</a></li>
       <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
       <li><a href="/foundation/thanks.html">Thanks</a></li>
        </ul>
       </li>
      </ul>
    </div>
  </div>
 </nav>
</header>
<!-- / Navigation -->
<div class="container">
 <div class="row">
      <div class="col-md-6 col-sm-5 col-xs-12">
    <img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
  </div>
  <div class="col-md-3 col-sm-3 col-xs-6">
  <a href="http://apache.org/foundation/contributing.html" title="Support Apache">
    <img src="/images/SupportApache-small.png" style="height: 150px; width: 150px; margin-top: 5px; margin-
bottom: 5px;">
  </a>
```

```
  </div>
  <div class="col-md-3 col-sm-4 col-xs-6">
   <div class="input-group" style="margin-bottom: 5px;">
   <script>
 (function() {
  var cx = '005703438322411770421:5mgshgrgx2u';
  var gcse = document.createElement('script');
  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
     '//cse.google.com/cse.js?cx=' + cx;
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(gcse, s);
 })();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
  </div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
  </div>
 </div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
 visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre>

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<footer class="bg-primary">

        <h5 class="white">Community</h5>
        <ul class="list-unstyled white" role="menu">
    Overview
    Conferences
    Summer of Code
    Getting Started
    The Apache Way
    Travel Assistance
    Get Involved
    Community FAQ
    Memorials

    <h5 class="white">Innovation</h5>

```
      <ul class="list-unstyled white" role="menu">
  <li><a href="http://incubator.apache.org/">Incubator</a></li>
  <li><a href="http://labs.apache.org/">Labs</a></li>
  <li><a href="/licenses/">Licensing</a></li>
  <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
  <li><a href="/foundation/marks/">Trademark Policy</a></li>
  <li><a href="/foundation/contact.html">Contacts</a></li>
      </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Tech Operations</h5>
     <ul class="list-unstyled white" role="menu">
   <li><a href="/dev/">Developer Information</a></li>
   <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
   <li><a href="/security/">Security</a></li>
   <li><a href="http://status.apache.org">Status</a></li>
   <li><a href="/foundation/contact.html">Contacts</a></li>
     </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Press</h5>
    <ul class="list-unstyled white" role="menu">
  <li><a href="/press/">Overview</a></li>
  <li><a href="https://blogs.apache.org/">ASF News</a></li>
  <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
  <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
  <li><a href="/press/#contact">Contacts</a></li>
    </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Legal</h5>
    <ul class="list-unstyled white" role="menu">
  <li><a href="/legal/">Legal Affairs</a></li>
  <li><a href="/licenses/">Licenses</a></li>
  <li><a href="/foundation/marks/">Trademark Policy</a></li>
  <li><a href="/foundation/records/">Public Records</a></li>
      <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
  <li><a href="/licenses/exports/">Export Information</a></li>
  <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
  <li><a href="/foundation/contact.html">Contacts</a></li>
    </ul>
</div>

<div class="col-sm-1">
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  <div class="row">
   <div class="col-lg-12">
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   </div>
  </div>
 </div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

1.38 jackson-annotations 2.8.0

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1.39 jackson-core-asl 1.9.2

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1.40 jackson-databind 2.8.6

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1.41 jackson-jaxrs 1.7.1

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1.42 jackson-mapper-asl 1.9.13

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1.45 jackson-mapper-asl 1.9.13

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1.55 jcl-over-slf4j 1.7.25

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1.57 jersey-common 2.3

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1.61 jersey-spring3 2.3

1.62 Jettison 1.3.3

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Refactored SqlBuilder class (SQL, AbstractSQL)

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1.101 scala-library 2.10.2

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1.102 slf4j log4j12 1.6.1

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1.103 slf4j-api 1.7.7

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*/
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import org.slf4j.helpers.BasicMarkerFactory;
import org.slf4j.helpers.Util;
import org.slf4j.impl.StaticMarkerBinder;

/**
* MarkerFactory is a utility class producing {@link Marker} instances as
* appropriate for the logging system currently in use.
*
* <p>
* This class is essentially implemented as a wrapper around an
```

```
* {@link IMarkerFactory} instance bound at compile time.
*
* <p>
* Please note that all methods in this class are static.
*
* @author Ceki G&uuml;lc&uuml;
*/
public class MarkerFactory {
 static IMarkerFactory markerFactory;

 private MarkerFactory() {
 }

 static {
  try {
    markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
  } catch (NoClassDefFoundError e) {
    markerFactory = new BasicMarkerFactory();

  } catch (Exception e) {
    // we should never get here
    Util.report("Unexpected failure while binding MarkerFactory", e);
  }
 }

/**
 * Return a Marker instance as specified by the name parameter using the
 * previously bound {@link IMarkerFactory}instance.
 *
 * @param name
 *          The name of the {@link Marker} object to return.
 * @return marker
 */
public static Marker getMarker(String name) {
  return markerFactory.getMarker(name);
}

/**
 * Create a marker which is detached (even at birth) from the MarkerFactory.
 *
 * @param name the name of the marker
 * @return a dangling marker
 * @since 1.5.1
 */
public static Marker getDetachedMarker(String name) {
  return markerFactory.getDetachedMarker(name);
}
```

```
/**
 * Return the {@link IMarkerFactory}instance in use.
 *
 * <p>The IMarkerFactory instance is usually bound with this class at
 * compile time.
 *
 * @return the IMarkerFactory instance in use
 */
public static IMarkerFactory getIMarkerFactory() {
  return markerFactory;
 }
}
```

1.105 slf4j-log4j12 1.3.0

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1.106 slf4j-log4j12 1.7.5

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1.107 slf4j-log4j12_apache 1.3.0

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1.120 spring-boot-starter-jetty 1.5.6.RELEASE

1.121 spring-boot-starter-jetty 1.4.1.RELEASE

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1.122 spring-boot-starter-log4j2 1.5.6.RELEASE

1.123 spring-boot-starter-web 1.5.6.RELEASE

1.124 Spring-Context 3.1.1.RELEASE

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```

```
package org.springframework.jdbc.core.simple;

import java.util.Arrays;
import java.util.HashSet;
import java.util.Map;
import javax.sql.DataSource;

import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.jdbc.core.RowMapper;
import org.springframework.jdbc.core.SqlParameter;
import org.springframework.jdbc.core.namedparam.SqlParameterSource;

/**
* A SimpleJdbcCall is a multi-threaded, reusable object representing a call
* to a stored procedure or a stored function. It provides meta data processing
* to simplify the code needed to access basic stored procedures/functions.
* All you need to provide is the name of the procedure/function and a Map
* containing the parameters when you execute the call. The names of the
* supplied parameters will be matched up with in and out parameters declared
* when the stored procedure was created.
*
* <p>The meta data processing is based on the DatabaseMetaData provided by
* the JDBC driver. Since we rely on the JDBC driver, this "auto-detection"
* can only be used for databases that are known to provide accurate meta data.
* These currently include Derby, MySQL, Microsoft SQL Server, Oracle, DB2,
* Sybase and PostgreSQL. For any other databases you are required to declare all
* parameters explicitly. You can of course declare all parameters explicitly even
* if the database provides the necessary meta data. In that case your declared
* parameters will take precedence. You can also turn off any meta data processing
* if you want to use parameter names that do not match what is declared during
* the stored procedure compilation.
*
* <p>The actual insert is being handled using Spring's
* {@link org.springframework.jdbc.core.JdbcTemplate}.
*
* <p>Many of the configuration methods return the current instance of the SimpleJdbcCall
* to provide the ability to chain multiple ones together in a "fluent" interface style.
*
* @author Thomas Risberg
* @since 2.5
* @see java.sql.DatabaseMetaData
* @see org.springframework.jdbc.core.JdbcTemplate
*/
public class SimpleJdbcCall extends AbstractJdbcCall implements SimpleJdbcCallOperations {

 /**
  * Constructor that takes one parameter with the JDBC DataSource to use when creating the
```

```
 * JdbcTemplate.
 * @param dataSource the {@code DataSource} to use
 * @see org.springframework.jdbc.core.JdbcTemplate#setDataSource
 */
public SimpleJdbcCall(DataSource dataSource) {
 super(dataSource);
}

/**
 * Alternative Constructor that takes one parameter with the JdbcTemplate to be used.
 * @param jdbcTemplate the {@code JdbcTemplate} to use
 * @see org.springframework.jdbc.core.JdbcTemplate#setDataSource
 */
public SimpleJdbcCall(JdbcTemplate jdbcTemplate) {
 super(jdbcTemplate);
}


@Override
public SimpleJdbcCall withProcedureName(String procedureName) {
 setProcedureName(procedureName);
 setFunction(false);
 return this;
}

@Override
public SimpleJdbcCall withFunctionName(String functionName) {
 setProcedureName(functionName);
 setFunction(true);
 return this;
}

@Override
public SimpleJdbcCall withSchemaName(String schemaName) {
 setSchemaName(schemaName);
 return this;
}

@Override
public SimpleJdbcCall withCatalogName(String catalogName) {
 setCatalogName(catalogName);
 return this;
}

@Override
public SimpleJdbcCall withReturnValue() {
 setReturnValueRequired(true);
 return this;
```

```
}

@Override
public SimpleJdbcCall declareParameters(SqlParameter... sqlParameters) {
 for (SqlParameter sqlParameter : sqlParameters) {
  if (sqlParameter != null) {
   addDeclaredParameter(sqlParameter);
  }
 }
 return this;
}

@Override
public SimpleJdbcCall useInParameterNames(String... inParameterNames) {
 setInParameterNames(new HashSet<String>(Arrays.asList(inParameterNames)));
 return this;
}

@Override
public SimpleJdbcCall returningResultSet(String parameterName, RowMapper<?> rowMapper) {
 addDeclaredRowMapper(parameterName, rowMapper);
 return this;
}

@Override
public SimpleJdbcCall withoutProcedureColumnMetaDataAccess() {
 setAccessCallParameterMetaData(false);
 return this;
}

@Override
@SuppressWarnings("unchecked")
public <T> T executeFunction(Class<T> returnType, Object... args) {
 return (T) doExecute(args).get(getScalarOutParameterName());
}

@Override
@SuppressWarnings("unchecked")
public <T> T executeFunction(Class<T> returnType, Map<String, ?> args) {
 return (T) doExecute(args).get(getScalarOutParameterName());
}

@Override
@SuppressWarnings("unchecked")
public <T> T executeFunction(Class<T> returnType, SqlParameterSource args) {
 return (T) doExecute(args).get(getScalarOutParameterName());
}
```

```
@Override
@SuppressWarnings("unchecked")
public <T> T executeObject(Class<T> returnType, Object... args) {
 return (T) doExecute(args).get(getScalarOutParameterName());
}

@Override
@SuppressWarnings("unchecked")
public <T> T executeObject(Class<T> returnType, Map<String, ?> args) {
 return (T) doExecute(args).get(getScalarOutParameterName());
}

@Override
@SuppressWarnings("unchecked")
public <T> T executeObject(Class<T> returnType, SqlParameterSource args) {
 return (T) doExecute(args).get(getScalarOutParameterName());
}

@Override
public Map<String, Object> execute(Object... args) {
 return doExecute(args);
}

@Override
public Map<String, Object> execute(Map<String, ?> args) {
 return doExecute(args);
}

@Override
public Map<String, Object> execute(SqlParameterSource parameterSource) {
 return doExecute(parameterSource);
}

}
/*
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```

```
*/

package org.springframework.jdbc.core.simple;

import java.util.List;
import java.util.Map;

import org.springframework.dao.DataAccessException;
import org.springframework.jdbc.core.JdbcOperations;
import org.springframework.jdbc.core.RowMapper;
import org.springframework.jdbc.core.namedparam.NamedParameterJdbcOperations;
import org.springframework.jdbc.core.namedparam.SqlParameterSource;

/**
* JDBC operations interface usable on Java 5 and above, exposing a
* set of common JDBC operations, whose interface is simplified
* through the use of varargs and autoboxing.
*
* @author Rod Johnson
* @author Rob Harrop
* @author Thomas Risberg
* @since 2.0
* @see org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate
* @see SimpleJdbcTemplate
* @see org.springframework.jdbc.core.JdbcOperations
* @deprecated since Spring 3.1 in favor of {@link org.springframework.jdbc.core.JdbcOperations} and
* {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcOperations}. The JdbcTemplate and
* NamedParameterJdbcTemplate now provide all the functionality of the SimpleJdbcTemplate.
*/
@Deprecated
public interface SimpleJdbcOperations {

 /**
  * Expose the classic Spring JdbcTemplate to allow invocation of less
  * commonly used methods.
  */
 JdbcOperations getJdbcOperations();

 /**
  * Expose the Spring NamedParameterJdbcTemplate to allow invocation of less
  * commonly used methods.
  */
 NamedParameterJdbcOperations getNamedParameterJdbcOperations();



 /**
  * Query for an {@code int} passing in a SQL query
  * using the named parameter support provided by the
```

```
     * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
     * and a map containing the arguments.
     * @param sql the SQL query to run.
     * @param args the map containing the arguments for the query
     */
    int queryForInt(String sql, Map<String, ?> args) throws DataAccessException;

    /**
     * Query for an {@code int} passing in a SQL query
     * using the named parameter support provided by the
     * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
     * and a {@code SqlParameterSource} containing the arguments.
     * @param sql the SQL query to run.
     * @param args the {@code SqlParameterSource} containing the arguments for the query.
     */
    int queryForInt(String sql, SqlParameterSource args) throws DataAccessException;

    /**
     * Query for an {@code int} passing in a SQL query
     * using the standard '?' placeholders for parameters
     * and a variable number of arguments.
     * @param sql the SQL query to run.
     * @param args the variable number of arguments for the query
     */
    int queryForInt(String sql, Object... args) throws DataAccessException;

    /**
     * Query for an {@code long} passing in a SQL query
     * using the named parameter support provided by the
     * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
     * and a map containing the arguments.
     * @param sql the SQL query to run.
     * @param args the map containing the arguments for the query
     */
    long queryForLong(String sql, Map<String, ?> args) throws DataAccessException;

    /**
     * Query for an {@code long} passing in a SQL query
     * using the named parameter support provided by the
     * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
     * and a {@code SqlParameterSource} containing the arguments.
     * @param sql the SQL query to run.
     * @param args the {@code SqlParameterSource} containing the arguments for the query
     */
    long queryForLong(String sql, SqlParameterSource args) throws DataAccessException;

    /**
     * Query for an {@code long} passing in a SQL query
```

```
 * using the standard '?' placeholders for parameters
 * and a variable number of arguments.
 * @param sql the SQL query to run.
 * @param args the variable number of arguments for the query
 */
long queryForLong(String sql, Object... args) throws DataAccessException;

/**
 * Query for an object of type {@code T} identified by the supplied @{@link Class}.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param requiredType the required type of the return value
 * @param args the map containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, Class)
 * @see JdbcOperations#queryForObject(String, Object[], Class)
 */
<T> T queryForObject(String sql, Class<T> requiredType, Map<String, ?> args)
  throws DataAccessException;

/**
 * Query for an object of type {@code T} identified by the supplied @{@link Class}.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param requiredType the required type of the return value
 * @param args the {@code SqlParameterSource} containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, Class)
 * @see JdbcOperations#queryForObject(String, Object[], Class)
 */
<T> T queryForObject(String sql, Class<T> requiredType, SqlParameterSource args)
  throws DataAccessException;

/**
 * Query for an object of type {@code T} identified by the supplied @{@link Class}.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param requiredType the required type of the return value
 * @param args the variable number of arguments for the query
 * @see JdbcOperations#queryForObject(String, Class)
 * @see JdbcOperations#queryForObject(String, Object[], Class)
 */
<T> T queryForObject(String sql, Class<T> requiredType, Object... args)
  throws DataAccessException;

/**
 * Query for an object of type {@code T} using the supplied
 * {@link RowMapper} to the query results to the object.
```

```
     * Uses sql with the named parameter support provided by the
     * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
     * @param sql the SQL query to run
     * @param rm the @{@link RowMapper} to use for result mapping
     * @param args the map containing the arguments for the query
     * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
     * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
     */
    <T> T queryForObject(String sql, RowMapper<T> rm, Map<String, ?> args)
      throws DataAccessException;

    /**
     * Query for an object of type {@code T} using the supplied
     * {@link ParameterizedRowMapper} to the query results to the object.
     * Uses sql with the named parameter support provided by the
     * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
     * @param sql the SQL query to run
     * @param rm the @{@link ParameterizedRowMapper} to use for result mapping
     * @param args the map containing the arguments for the query
     * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
     * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
     * @deprecated as of Spring 3.0: Use the method using the newly genericized RowMapper interface
     * instead since the RowMapper and ParameterizedRowMapper interfaces are equivalent now.
     */
    @Deprecated
    <T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, Map<String, ?> args)
      throws DataAccessException;

    /**
     * Query for an object of type {@code T} using the supplied
     * {@link RowMapper} to the query results to the object.
     * Uses sql with the named parameter support provided by the
     * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
     * @param sql the SQL query to run
     * @param rm the @{@link RowMapper} to use for result mapping
     * @param args the {@code SqlParameterSource} containing the arguments for the query
     * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
     * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
     */
    <T> T queryForObject(String sql, RowMapper<T> rm, SqlParameterSource args)
      throws DataAccessException;

    /**
     * Query for an object of type {@code T} using the supplied
     * {@link ParameterizedRowMapper} to the query results to the object.
     * Uses sql with the named parameter support provided by the
     * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
     * @param sql the SQL query to run
```

```
 * @param rm the @{@link ParameterizedRowMapper} to use for result mapping
 * @param args the {@code SqlParameterSource} containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 * @deprecated as of Spring 3.0: Use the method using the newly genericized RowMapper interface
 * instead since the RowMapper and ParameterizedRowMapper interfaces are equivalent now.
 */
@Deprecated
<T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, SqlParameterSource args)
  throws DataAccessException;

/**
 * Query for an object of type {@code T} using the supplied
 * {@link RowMapper} to the query results to the object.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param rm the @{@link RowMapper} to use for result mapping
 * @param args the variable number of arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 */
<T> T queryForObject(String sql, RowMapper<T> rm, Object... args)
  throws DataAccessException;

/**
 * Query for an object of type {@code T} using the supplied
 * {@link ParameterizedRowMapper} to the query results to the object.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param rm the @{@link ParameterizedRowMapper} to use for result mapping
 * @param args the variable number of arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 * @deprecated as of Spring 3.0: Use the method using the newly genericized RowMapper interface
 * instead since the RowMapper and ParameterizedRowMapper interfaces are equivalent now.
 */
@Deprecated
<T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, Object... args)
  throws DataAccessException;

/**
 * Query for a {@link List} of {@code Objects} of type {@code T} using
 * the supplied {@link RowMapper} to the query results to the object.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param rm the @{@link RowMapper} to use for result mapping
 * @param args the map containing the arguments for the query
```

```
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 */
<T> List<T> query(String sql, RowMapper<T> rm, Map<String, ?> args)
  throws DataAccessException;

/**
 * Query for a {@link List} of {@code Objects} of type {@code T} using
 * the supplied {@link ParameterizedRowMapper} to the query results to the object.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param rm the @{@link ParameterizedRowMapper} to use for result mapping
 * @param args the map containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 * @deprecated as of Spring 3.0: Use the method using the newly genericized RowMapper interface
 * instead since the RowMapper and ParameterizedRowMapper interfaces are equivalent now.
 */
@Deprecated
<T> List<T> query(String sql, ParameterizedRowMapper<T> rm, Map<String, ?> args)
  throws DataAccessException;

/**
 * Query for a {@link List} of {@code Objects} of type {@code T} using
 * the supplied {@link RowMapper} to the query results to the object.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param rm the @{@link RowMapper} to use for result mapping
 * @param args the {@code SqlParameterSource} containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 */
<T> List<T> query(String sql, RowMapper<T> rm, SqlParameterSource args)
  throws DataAccessException;

/**
 * Query for a {@link List} of {@code Objects} of type {@code T} using
 * the supplied {@link ParameterizedRowMapper} to the query results to the object.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param rm the @{@link ParameterizedRowMapper} to use for result mapping
 * @param args the {@code SqlParameterSource} containing the arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 * @deprecated as of Spring 3.0: Use the method using the newly genericized RowMapper interface
```

```
 * instead since the RowMapper and ParameterizedRowMapper interfaces are equivalent now.
 */
@Deprecated
<T> List<T> query(String sql, ParameterizedRowMapper<T> rm, SqlParameterSource args)
  throws DataAccessException;

/**
 * Query for a {@link List} of {@code Objects} of type {@code T} using
 * the supplied {@link RowMapper} to the query results to the object.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param rm the @{@link RowMapper} to use for result mapping
 * @param args the variable number of arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 */
<T> List<T> query(String sql, RowMapper<T> rm, Object... args)
  throws DataAccessException;

/**
 * Query for a {@link List} of {@code Objects} of type {@code T} using
 * the supplied {@link ParameterizedRowMapper} to the query results to the object.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param rm the @{@link ParameterizedRowMapper} to use for result mapping
 * @param args the variable number of arguments for the query
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 * @deprecated as of Spring 3.0: Use the method using the newly genericized RowMapper interface
 * instead since the RowMapper and ParameterizedRowMapper interfaces are equivalent now.
 */
@Deprecated
<T> List<T> query(String sql, ParameterizedRowMapper<T> rm, Object... args)
  throws DataAccessException;

/**
 * Execute the supplied query with the supplied arguments.
 * <p>The query is expected to be a single row query; the result row will be
 * mapped to a Map<String, Object> (one entry for each column, using the column name as the key).
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param args the map containing the arguments for the query
 * @see JdbcOperations#queryForMap(String)
 * @see JdbcOperations#queryForMap(String, Object[])
 */
Map<String, Object> queryForMap(String sql, Map<String, ?> args)
  throws DataAccessException;
```

```
/**
 * Execute the supplied query with the supplied arguments.
 * <p>The query is expected to be a single row query; the result row will be
 * mapped to a Map<String, Object> (one entry for each column, using the column name as the key).
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param args the {@code SqlParameterSource} containing the arguments for the query
 * @see JdbcOperations#queryForMap(String)
 * @see JdbcOperations#queryForMap(String, Object[])
 */
Map<String, Object> queryForMap(String sql, SqlParameterSource args)
  throws DataAccessException;

/**
 * Execute the supplied query with the (optional) supplied arguments.
 * <p>The query is expected to be a single row query; the result row will be
 * mapped to a Map<String, Object> (one entry for each column, using the column name as the key).
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param args the variable number of arguments for the query
 * @see JdbcOperations#queryForMap(String)
 * @see JdbcOperations#queryForMap(String, Object[])
 */
Map<String, Object> queryForMap(String sql, Object... args)
  throws DataAccessException;

/**
 * Execute the supplied query with the supplied arguments.
 * <p>Each element in the returned {@link List} is constructed as a {@link Map}
 * as described in {@link #queryForMap}
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL query to run
 * @param args the map containing the arguments for the query
 * @see JdbcOperations#queryForList(String)
 * @see JdbcOperations#queryForList(String, Object[])
 */
List<Map<String, Object>> queryForList(String sql, Map<String, ?> args)
  throws DataAccessException;

/**
 * Execute the supplied query with the supplied arguments.
 * <p>Each element in the returned {@link List} is constructed as a {@link Map}
 * as described in {@link #queryForMap}
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
```

```
 * @param sql the SQL query to run
 * @param args the {@code SqlParameterSource} containing the arguments for the query
 * @see JdbcOperations#queryForList(String)
 * @see JdbcOperations#queryForList(String, Object[])
 */
List<Map<String, Object>> queryForList(String sql, SqlParameterSource args)
  throws DataAccessException;

/**
 * Execute the supplied query with the (optional) supplied arguments.
 * <p>Each element in the returned {@link List} is constructed as a {@link Map}
 * as described in {@link #queryForMap}
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL query to run
 * @param args the variable number of arguments for the query
 * @see JdbcOperations#queryForList(String)
 * @see JdbcOperations#queryForList(String, Object[])
 */
List<Map<String, Object>> queryForList(String sql, Object... args)
  throws DataAccessException;

/**
 * Execute the supplied SQL statement with (optional) supplied arguments.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL statement to execute
 * @param args the map containing the arguments for the query
 * @return the numbers of rows affected by the update
 * @see NamedParameterJdbcOperations#update(String, Map)
 */
int update(String sql, Map<String, ?> args) throws DataAccessException;

/**
 * Execute the supplied SQL statement with supplied arguments.
 * Uses sql with the named parameter support provided by the
 * {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}
 * @param sql the SQL statement to execute
 * @param args the {@code SqlParameterSource} containing the arguments for the statement
 * @return the numbers of rows affected by the update
 * @see NamedParameterJdbcOperations#update(String, SqlParameterSource)
 */
int update(String sql, SqlParameterSource args) throws DataAccessException;

/**
 * Execute the supplied SQL statement with supplied arguments.
 * Uses sql with the standard '?' placeholders for parameters
 * @param sql the SQL statement to execute
 * @param args the variable number of arguments for the query
```

```
     * @return the numbers of rows affected by the update
     * @see JdbcOperations#update(String)
     * @see JdbcOperations#update(String, Object[])
     */
    int update(String sql, Object... args) throws DataAccessException;

    /**
     * Executes a batch using the supplied SQL statement with the batch of supplied arguments.
     * Uses sql with the named parameter support.
     * @param sql the SQL statement to execute
     * @param batchValues the array of Maps containing the batch of arguments for the query
     * @return an array containing the numbers of rows affected by each update in the batch
     */
    public int[] batchUpdate(String sql, Map<String, ?>[] batchValues);

    /**
     * Execute a batch using the supplied SQL statement with the batch of supplied arguments.
     * Uses sql with the named parameter support.
     * @param sql the SQL statement to execute
     * @param batchArgs the array of {@link SqlParameterSource} containing the batch of arguments for the query
     * @return an array containing the numbers of rows affected by each update in the batch
     */
    public int[] batchUpdate(String sql, SqlParameterSource[] batchArgs);

    /**
     * Execute a batch using the supplied SQL statement with the batch of supplied arguments.
     * Uses sql with the standard '?' placeholders for parameters
     * @param sql the SQL statement to execute
     * @param batchArgs the List of Object arrays containing the batch of arguments for the query
     * @return an array containing the numbers of rows affected by each update in the batch
     */
    public int[] batchUpdate(String sql, List<Object[]> batchArgs);

    /**
     * Execute a batch using the supplied SQL statement with the batch of supplied arguments.
     * Uses sql with the standard '?' placeholders for parameters
     * @param sql the SQL statement to execute.
     * @param batchArgs the List of Object arrays containing the batch of arguments for the query
     * @param argTypes SQL types of the arguments
     * (constants from {@code java.sql.Types})
     * @return an array containing the numbers of rows affected by each update in the batch
     */
    public int[] batchUpdate(String sql, List<Object[]> batchArgs, int[] argTypes);

    }
    /*
    * Copyright 2002-2012 the original author or authors.
    *
```

```
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

package org.springframework.jdbc.core.simple;

import java.util.List;
import java.util.Map;

import javax.sql.DataSource;

import org.springframework.dao.DataAccessException;
import org.springframework.jdbc.core.JdbcOperations;
import org.springframework.jdbc.core.RowMapper;
import org.springframework.jdbc.core.BatchUpdateUtils;
import org.springframework.jdbc.core.namedparam.NamedParameterJdbcOperations;
import org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate;
import org.springframework.jdbc.core.namedparam.SqlParameterSource;
import org.springframework.util.ObjectUtils;

/**
* Java-5-based convenience wrapper for the classic Spring
* {@link org.springframework.jdbc.core.JdbcTemplate},
* taking advantage of varargs and autoboxing, and exposing only the most
* commonly required operations in order to simplify JdbcTemplate usage.
*
* <p>Use the {@link #getJdbcOperations()} method (or a straight JdbcTemplate)
* if you need to invoke less commonly used template methods. This includes
* any methods specifying SQL types, methods using less commonly used callbacks
* such as RowCallbackHandler, updates with PreparedStatementSetters rather than
* argument arrays, and stored procedures as well as batch operations.
*
* @author Rod Johnson
* @author Rob Harrop
* @author Juergen Hoeller
* @author Thomas Risberg
* @since 2.0
* @see ParameterizedRowMapper
* @see SimpleJdbcDaoSupport
```

```
* @see org.springframework.jdbc.core.JdbcTemplate
* @deprecated since Spring 3.1 in favor of {@link org.springframework.jdbc.core.JdbcTemplate} and
* {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate}. The JdbcTemplate and
* NamedParameterJdbcTemplate now provide all the functionality of the SimpleJdbcTemplate.
*/
@Deprecated
public class SimpleJdbcTemplate implements SimpleJdbcOperations {

 /** The NamedParameterJdbcTemplate that we are wrapping */
 private final NamedParameterJdbcOperations namedParameterJdbcOperations;


 /**
  * Create a new SimpleJdbcTemplate for the given DataSource.
  * <p>Creates a classic Spring JdbcTemplate and wraps it.
  * @param dataSource the JDBC DataSource to access
  */
 public SimpleJdbcTemplate(DataSource dataSource) {
  this.namedParameterJdbcOperations = new NamedParameterJdbcTemplate(dataSource);
 }

 /**
  * Create a new SimpleJdbcTemplate for the given classic Spring JdbcTemplate.
  * @param classicJdbcTemplate the classic Spring JdbcTemplate to wrap
  */
 public SimpleJdbcTemplate(JdbcOperations classicJdbcTemplate) {
  this.namedParameterJdbcOperations = new NamedParameterJdbcTemplate(classicJdbcTemplate);
 }

 /**
  * Create a new SimpleJdbcTemplate for the given Spring NamedParameterJdbcTemplate.
  * @param namedParameterJdbcTemplate the Spring NamedParameterJdbcTemplate to wrap
  */
 public SimpleJdbcTemplate(NamedParameterJdbcOperations namedParameterJdbcTemplate) {
  this.namedParameterJdbcOperations = namedParameterJdbcTemplate;
 }


 /**
  * Expose the classic Spring JdbcTemplate to allow invocation of
  * less commonly used methods.
  */
 @Override
 public JdbcOperations getJdbcOperations() {
  return this.namedParameterJdbcOperations.getJdbcOperations();
 }

 /**
```

```
 * Expose the Spring NamedParameterJdbcTemplate to allow invocation of
 * less commonly used methods.
 */
@Override
public NamedParameterJdbcOperations getNamedParameterJdbcOperations() {
 return this.namedParameterJdbcOperations;
}


@Override
public int queryForInt(String sql, Map<String, ?> args) throws DataAccessException {
 return getNamedParameterJdbcOperations().queryForInt(sql, args);
}

@Override
public int queryForInt(String sql, SqlParameterSource args) throws DataAccessException {
 return getNamedParameterJdbcOperations().queryForInt(sql, args);
}

@Override
public int queryForInt(String sql, Object... args) throws DataAccessException {
 return (ObjectUtils.isEmpty(args) ?
    getJdbcOperations().queryForInt(sql) :
    getJdbcOperations().queryForInt(sql, getArguments(args)));
}

@Override
public long queryForLong(String sql, Map<String, ?> args) throws DataAccessException {
 return getNamedParameterJdbcOperations().queryForLong(sql, args);
}

@Override
public long queryForLong(String sql, SqlParameterSource args) throws DataAccessException {
 return getNamedParameterJdbcOperations().queryForLong(sql, args);
}

@Override
public long queryForLong(String sql, Object... args) throws DataAccessException {
 return (ObjectUtils.isEmpty(args) ?
    getJdbcOperations().queryForLong(sql) :
    getJdbcOperations().queryForLong(sql, getArguments(args)));
}

@Override
public <T> T queryForObject(String sql, Class<T> requiredType, Map<String, ?> args) throws
DataAccessException {
 return getNamedParameterJdbcOperations().queryForObject(sql, args, requiredType);
 }
```

```
@Override
public <T> T queryForObject(String sql, Class<T> requiredType, SqlParameterSource args)
  throws DataAccessException {
 return getNamedParameterJdbcOperations().queryForObject(sql, args, requiredType);
}

@Override
public <T> T queryForObject(String sql, Class<T> requiredType, Object... args) throws DataAccessException {
 return (ObjectUtils.isEmpty(args) ?
   getJdbcOperations().queryForObject(sql, requiredType) :
   getJdbcOperations().queryForObject(sql, getArguments(args), requiredType));
}

@Override
public <T> T queryForObject(String sql, RowMapper<T> rm, Map<String, ?> args) throws DataAccessException {
 return getNamedParameterJdbcOperations().queryForObject(sql, args, rm);
}

@Override
@Deprecated
public <T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, Map<String, ?> args) throws
DataAccessException {
 return queryForObject(sql, (RowMapper<T>) rm, args);
}

@Override
public <T> T queryForObject(String sql, RowMapper<T> rm, SqlParameterSource args)
  throws DataAccessException {
 return getNamedParameterJdbcOperations().queryForObject(sql, args, rm);
}

@Override
@Deprecated
public <T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, SqlParameterSource args)
  throws DataAccessException {
 return queryForObject(sql, (RowMapper<T>) rm, args);
}

@Override
public <T> T queryForObject(String sql, RowMapper<T> rm, Object... args) throws DataAccessException {
 return (ObjectUtils.isEmpty(args) ?
   getJdbcOperations().queryForObject(sql, rm):
   getJdbcOperations().queryForObject(sql, getArguments(args), rm));
}

@Override
@Deprecated
```

```
 public <T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, Object... args) throws
DataAccessException {
 return queryForObject(sql, (RowMapper<T>) rm, args);
 }

 @Override
 public <T> List<T> query(String sql, RowMapper<T> rm, Map<String, ?> args) throws DataAccessException {
 return getNamedParameterJdbcOperations().query(sql, args, rm);
 }

 @Override
 @Deprecated
 public <T> List<T> query(String sql, ParameterizedRowMapper<T> rm, Map<String, ?> args) throws
DataAccessException {
 return query(sql, (RowMapper<T>) rm, args);
 }

 @Override
 public <T> List<T> query(String sql, RowMapper<T> rm, SqlParameterSource args)
  throws DataAccessException {
 return getNamedParameterJdbcOperations().query(sql, args, rm);
 }

 @Override
 @Deprecated
 public <T> List<T> query(String sql, ParameterizedRowMapper<T> rm, SqlParameterSource args)
  throws DataAccessException {
 return query(sql, (RowMapper<T>) rm, args);
 }

 @Override
 public <T> List<T> query(String sql, RowMapper<T> rm, Object... args) throws DataAccessException {
 return (ObjectUtils.isEmpty(args) ?
   getJdbcOperations().query(sql, rm) :
   getJdbcOperations().query(sql, getArguments(args), rm));
 }

 @Override
 @Deprecated
 public <T> List<T> query(String sql, ParameterizedRowMapper<T> rm, Object... args) throws
DataAccessException {
 return query(sql, (RowMapper<T>) rm, args);
 }

 @Override
 public Map<String, Object> queryForMap(String sql, Map<String, ?> args) throws DataAccessException {
 return getNamedParameterJdbcOperations().queryForMap(sql, args);
 }
```

```
@Override
public Map<String, Object> queryForMap(String sql, SqlParameterSource args)
  throws DataAccessException {
 return getNamedParameterJdbcOperations().queryForMap(sql, args);
}

@Override
public Map<String, Object> queryForMap(String sql, Object... args) throws DataAccessException {
 return (ObjectUtils.isEmpty(args) ?
   getJdbcOperations().queryForMap(sql) :
   getJdbcOperations().queryForMap(sql, getArguments(args)));
}

@Override
public List<Map<String, Object>> queryForList(String sql, Map<String, ?> args) throws DataAccessException {
 return getNamedParameterJdbcOperations().queryForList(sql, args);
}

@Override
public List<Map<String, Object>> queryForList(String sql, SqlParameterSource args)
  throws DataAccessException {
 return getNamedParameterJdbcOperations().queryForList(sql, args);
}

@Override
public List<Map<String, Object>> queryForList(String sql, Object... args) throws DataAccessException {
 return (ObjectUtils.isEmpty(args) ?
   getJdbcOperations().queryForList(sql) :
   getJdbcOperations().queryForList(sql, getArguments(args)));
}

@Override
public int update(String sql, Map<String, ?> args) throws DataAccessException {
 return getNamedParameterJdbcOperations().update(sql, args);
}

@Override
public int update(String sql, SqlParameterSource args) throws DataAccessException {
 return getNamedParameterJdbcOperations().update(sql, args);
}

@Override
public int update(String sql, Object ... args) throws DataAccessException {
 return (ObjectUtils.isEmpty(args) ?
   getJdbcOperations().update(sql) :
   getJdbcOperations().update(sql, getArguments(args)));
}
```

```
@Override
public int[] batchUpdate(String sql, List<Object[]> batchArgs) {
 return batchUpdate(sql, batchArgs, new int[0]);
}

@Override
public int[] batchUpdate(String sql, List<Object[]> batchArgs, int[] argTypes) {
 return BatchUpdateUtils.executeBatchUpdate(sql, batchArgs, argTypes, getJdbcOperations());
}

@Override
public int[] batchUpdate(String sql, Map<String, ?>[] batchValues) {
 return getNamedParameterJdbcOperations().batchUpdate(sql, batchValues);
}

@Override
public int[] batchUpdate(String sql, SqlParameterSource[] batchArgs) {
 return getNamedParameterJdbcOperations().batchUpdate(sql, batchArgs);
}


/*
 * Considers an Object array passed into a varargs parameter as
 * collection of arguments rather than as single argument.
 */
private Object[] getArguments(Object[] varArgs) {
 if (varArgs.length == 1 && varArgs[0] instanceof Object[]) {
  return (Object[]) varArgs[0];
 }
 else {
  return varArgs;
 }
}

}
/*
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```

```
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* limitations under the License.
*/

package org.springframework.jdbc.core.simple;

import java.util.Arrays;
import java.util.Map;

import javax.sql.DataSource;

import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.jdbc.core.namedparam.SqlParameterSource;
import org.springframework.jdbc.support.KeyHolder;
import org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor;

/**
* A SimpleJdbcInsert is a multi-threaded, reusable object providing easy insert
* capabilities for a table. It provides meta data processing to simplify the code
* needed to construct a basic insert statement. All you need to provide is the
* name of the table and a Map containing the column names and the column values.
*
* <p>The meta data processing is based on the DatabaseMetaData provided by the
* JDBC driver. As long as the JBDC driver can provide the names of the columns
* for a specified table than we can rely on this auto-detection feature. If that
* is not the case, then the column names must be specified explicitly.
*
* <p>The actual insert is being handled using Spring's
* {@link org.springframework.jdbc.core.JdbcTemplate}.
*
* <p>Many of the configuration methods return the current instance of the SimpleJdbcInsert
* to provide the ability to chain multiple ones together in a "fluent" interface style.
*
* @author Thomas Risberg
* @since 2.5
* @see java.sql.DatabaseMetaData
* @see org.springframework.jdbc.core.JdbcTemplate
*/
public class SimpleJdbcInsert extends AbstractJdbcInsert implements SimpleJdbcInsertOperations {

 /**
  * Constructor that takes one parameter with the JDBC DataSource to use when creating the
  * JdbcTemplate.
  * @param dataSource the {@code DataSource} to use
  * @see org.springframework.jdbc.core.JdbcTemplate#setDataSource
  */
 public SimpleJdbcInsert(DataSource dataSource) {
  super(dataSource);
```

```
}

/**
 * Alternative Constructor that takes one parameter with the JdbcTemplate to be used.
 * @param jdbcTemplate the {@code JdbcTemplate} to use
 * @see org.springframework.jdbc.core.JdbcTemplate#setDataSource
 */
public SimpleJdbcInsert(JdbcTemplate jdbcTemplate) {
 super(jdbcTemplate);
}


@Override
public SimpleJdbcInsert withTableName(String tableName) {
 setTableName(tableName);
 return this;
}

@Override
public SimpleJdbcInsert withSchemaName(String schemaName) {
 setSchemaName(schemaName);
 return this;
}

@Override
public SimpleJdbcInsert withCatalogName(String catalogName) {
 setCatalogName(catalogName);
 return this;
}

@Override
public SimpleJdbcInsert usingColumns(String... columnNames) {
 setColumnNames(Arrays.asList(columnNames));
 return this;
}

@Override
public SimpleJdbcInsert usingGeneratedKeyColumns(String... columnNames) {
 setGeneratedKeyNames(columnNames);
 return this;
}

@Override
public SimpleJdbcInsertOperations withoutTableColumnMetaDataAccess() {
 setAccessTableColumnMetaData(false);
 return this;
}
```

```
@Override
public SimpleJdbcInsertOperations includeSynonymsForTableColumnMetaData() {
 setOverrideIncludeSynonymsDefault(true);
 return this;
}

@Override
public SimpleJdbcInsertOperations useNativeJdbcExtractorForMetaData(NativeJdbcExtractor nativeJdbcExtractor)
{
 setNativeJdbcExtractor(nativeJdbcExtractor);
 return this;
}

@Override
public int execute(Map<String, Object> args) {
 return doExecute(args);
}

@Override
public int execute(SqlParameterSource parameterSource) {
 return doExecute(parameterSource);
}

@Override
public Number executeAndReturnKey(Map<String, Object> args) {
 return doExecuteAndReturnKey(args);
}

@Override
public Number executeAndReturnKey(SqlParameterSource parameterSource) {
 return doExecuteAndReturnKey(parameterSource);
}

@Override
public KeyHolder executeAndReturnKeyHolder(Map<String, Object> args) {
 return doExecuteAndReturnKeyHolder(args);
}

@Override
public KeyHolder executeAndReturnKeyHolder(SqlParameterSource parameterSource) {
 return doExecuteAndReturnKeyHolder(parameterSource);
}

@Override
public int[] executeBatch(Map<String, Object>[] batch) {
 return doExecuteBatch(batch);
}
```

```
 @Override
 public int[] executeBatch(SqlParameterSource[] batch) {
  return doExecuteBatch(batch);
 }

}
/*
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*/

package org.springframework.jdbc.core.simple;

import java.util.Map;

import org.springframework.jdbc.core.RowMapper;
import org.springframework.jdbc.core.SqlParameter;
import org.springframework.jdbc.core.namedparam.SqlParameterSource;

/**
* Interface specifying the API for a Simple JDBC Call implemented by {@link SimpleJdbcCall}.
* This interface is not often used directly, but provides the
* option to enhance testability, as it can easily be mocked or stubbed.
*
* @author Thomas Risberg
* @since 2.5
*/
public interface SimpleJdbcCallOperations {

 /**
  * Specify the procedure name to be used - this implies that we will be calling a stored procedure.
  * @param procedureName the name of the stored procedure
  * @return the instance of this SimpleJdbcCall
  */
 SimpleJdbcCallOperations withProcedureName(String procedureName);

 /**
```

```
 * Specify the procedure name to be used - this implies that we will be calling a stored function.
 * @param functionName the name of the stored function
 * @return the instance of this SimpleJdbcCall
 */
SimpleJdbcCallOperations withFunctionName(String functionName);

/**
 * Optionally, specify the name of the schema that contins the stored procedure.
 * @param schemaName the name of the schema
 * @return the instance of this SimpleJdbcCall
 */
SimpleJdbcCallOperations withSchemaName(String schemaName);

/**
 * Optionally, specify the name of the catalog that contins the stored procedure.
 * To provide consistency with the Oracle DatabaseMetaData, this is used to specify the package name if
 * the procedure is declared as part of a package.
 * @param catalogName the catalog or package name
 * @return the instance of this SimpleJdbcCall
 */
SimpleJdbcCallOperations withCatalogName(String catalogName);

/**
 * Indicates the procedure's return value should be included in the results returned.
 * @return the instance of this SimpleJdbcCall
 */
SimpleJdbcCallOperations withReturnValue();

/**
 * Specify one or more parameters if desired. These parameters will be supplemented with any
 * parameter information retrieved from the database meta data.
 * Note that only parameters declared as {@code SqlParameter} and {@code SqlInOutParameter}
 * will be used to provide input values.  This is different from the {@code StoredProcedure} class
 * which for backwards compatibility reasons allows input values to be provided for parameters declared
 * as {@code SqlOutParameter}.
 * @param sqlParameters the parameters to use
 * @return the instance of this SimpleJdbcCall
 */
SimpleJdbcCallOperations declareParameters(SqlParameter... sqlParameters);

/** Not used yet */
SimpleJdbcCallOperations useInParameterNames(String... inParameterNames);

/**
 * Used to specify when a ResultSet is returned by the stored procedure and you want it mapped
 * by a RowMapper. The results will be returned using the parameter name specified. Multiple
 * ResultSets must be declared in the correct order. If the database you are using uses ref cursors
 * then the name specified must match the name of the parameter declared for the procedure in the
```

```
     * database.
     * @param parameterName the name of the returned results and/or the name of the ref cursor parameter
     * @param rowMapper the RowMapper implementation that will map the data returned for each row
     * */
    SimpleJdbcCallOperations returningResultSet(String parameterName, RowMapper<?> rowMapper);

    /**
     * Turn off any processing of parameter meta data information obtained via JDBC.
     * @return the instance of this SimpleJdbcCall
     */
    SimpleJdbcCallOperations withoutProcedureColumnMetaDataAccess();


    /**
     * Execute the stored function and return the results obtained as an Object of the specified return type.
     * @param returnType the type of the value to return
     * @param args optional array containing the in parameter values to be used in the call.
     * Parameter values must be provided in the same order as the parameters are defined
     * for the stored procedure.
     */
    <T> T executeFunction(Class<T> returnType, Object... args);

    /**
     * Execute the stored function and return the results obtained as an Object of the specified return type.
     * @param returnType the type of the value to return
     * @param args Map containing the parameter values to be used in the call.
     */
    <T> T executeFunction(Class<T> returnType, Map<String, ?> args);

    /**
     * Execute the stored function and return the results obtained as an Object of the specified return type.
     * @param returnType the type of the value to return
     * @param args MapSqlParameterSource containing the parameter values to be used in the call.
     */
    <T> T executeFunction(Class<T> returnType, SqlParameterSource args);

    /**
     * Execute the stored procedure and return the single out parameter as an Object of the specified return type.
     * In the case where there are multiple out parameters, the first one is returned and additional out parameters
     * are ignored.
     * @param returnType the type of the value to return
     * @param args optional array containing the in parameter values to be used in the call. Parameter values must
     * be provided in the same order as the parameters are defined for the stored procedure.
     */
    <T> T executeObject(Class<T> returnType, Object... args);

    /**
     * Execute the stored procedure and return the single out parameter as an Object of the specified return type.
```

```
 * In the case where there are multiple out parameters, the first one is returned and additional out parameters
 * are ignored.
 * @param returnType the type of the value to return
 * @param args Map containing the parameter values to be used in the call.
 */
<T> T executeObject(Class<T> returnType, Map<String, ?> args);

/**
 * Execute the stored procedure and return the single out parameter as an Object of the specified return type.
 * In the case where there are multiple out parameters, the first one is returned and additional out parameters
 * are ignored.
 * @param returnType the type of the value to return
 * @param args MapSqlParameterSource containing the parameter values to be used in the call.
 */
<T> T executeObject(Class<T> returnType, SqlParameterSource args);

/**
 * Execute the stored procedure and return a map of output params, keyed by name as in parameter declarations.
 * @param args optional array containing the in parameter values to be used in the call. Parameter values must
 * be provided in the same order as the parameters are defined for the stored procedure.
 * @return map of output params.
 */
Map<String, Object> execute(Object... args);

/**
 * Execute the stored procedure and return a map of output params, keyed by name as in parameter declarations..
 * @param args Map containing the parameter values to be used in the call.
 * @return map of output params.
 */
Map<String, Object> execute(Map<String, ?> args);

/**
 * Execute the stored procedure and return a map of output params, keyed by name as in parameter declarations..
 * @param args SqlParameterSource containing the parameter values to be used in the call.
 * @return map of output params.
 */
Map<String, Object> execute(SqlParameterSource args);

}
/*
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```

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*/

package org.springframework.jdbc.core.simple;

import java.util.Map;

import org.springframework.jdbc.core.namedparam.SqlParameterSource;
import org.springframework.jdbc.support.KeyHolder;
import org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor;

/**
* Interface specifying the API for a Simple JDBC Insert implemented by {@link SimpleJdbcInsert}.
* This interface is not often used directly, but provides the
* option to enhance testability, as it can easily be mocked or stubbed.
*
* @author Thomas Risberg
* @since 2.5
*/
public interface SimpleJdbcInsertOperations {

 /**
  * Specify the table name to be used for the insert.
  * @param tableName the name of the stored table
  * @return the instance of this SimpleJdbcInsert
  */
 SimpleJdbcInsertOperations withTableName(String tableName);

 /**
  * Specify the schema name, if any, to be used for the insert.
  * @param schemaName the name of the schema
  * @return the instance of this SimpleJdbcInsert
  */
 SimpleJdbcInsertOperations withSchemaName(String schemaName);

 /**
  * Specify the catalog name, if any, to be used for the insert.
  * @param catalogName the name of the catalog
  * @return the instance of this SimpleJdbcInsert
  */
 SimpleJdbcInsertOperations withCatalogName(String catalogName);

 /**
  * Specify the column names that the insert statement should be limited to use.
```

```
     * @param columnNames one or more column names
     * @return the instance of this SimpleJdbcInsert
     */
    SimpleJdbcInsertOperations usingColumns(String... columnNames);

    /**
     * Specify the name sof any columns that have auto generated keys.
     * @param columnNames one or more column names
     * @return the instance of this SimpleJdbcInsert
     */
    SimpleJdbcInsertOperations usingGeneratedKeyColumns(String... columnNames);

    /**
     * Turn off any processing of column meta data information obtained via JDBC.
     * @return the instance of this SimpleJdbcInsert
     */
    SimpleJdbcInsertOperations withoutTableColumnMetaDataAccess();

    /**
     * Include synonyms for the column meta data lookups via JDBC.
     * Note: this is only necessary to include for Oracle since other
     * databases supporting synonyms seems to include the synonyms
     * automatically.
     * @return the instance of this SimpleJdbcInsert
     */
    SimpleJdbcInsertOperations includeSynonymsForTableColumnMetaData();

    /**
     * Use a the provided NativeJdbcExtractor during the column meta data
     * lookups via JDBC.
     * Note: this is only necessary to include when running with a connection pool
     * that wraps the meta data connection and when using a database like Oracle
     * where it is necessary to access the native connection to include synonyms.
     * @return the instance of this SimpleJdbcInsert
     */
    SimpleJdbcInsertOperations useNativeJdbcExtractorForMetaData(NativeJdbcExtractor nativeJdbcExtractor);


    /**
     * Execute the insert using the values passed in.
     * @param args Map containing column names and corresponding value
     * @return the number of rows affected as returned by the JDBC driver
     */
    int execute(Map<String, Object> args);

    /**
     * Execute the insert using the values passed in.
     * @param parameterSource SqlParameterSource containing values to use for insert
```

```
     * @return the number of rows affected as returned by the JDBC driver
     */
    int execute(SqlParameterSource parameterSource);

    /**
     * Execute the insert using the values passed in and return the generated key.  This requires that
     * the name of the columns with auto generated keys have been specified. This method will always
     * return a key or throw an exception if a key was not returned.
     * @param args Map containing column names and corresponding value
     * @return the generated key value
     */
    Number executeAndReturnKey(Map<String, Object> args);

    /**
     * Execute the insert using the values passed in and return the generated key.  This requires that
     * the name of the columns with auto generated keys have been specified. This method will always
     * return a key or throw an exception if a key was not returned.
     * @param parameterSource SqlParameterSource containing values to use for insert
     * @return the generated key value.
     */
    Number executeAndReturnKey(SqlParameterSource parameterSource);

    /**
     * Execute the insert using the values passed in and return the generated keys.  This requires that
     * the name of the columns with auto generated keys have been specified. This method will always return
     * a KeyHolder but the caller must verify that it actually contains the generated keys.
     * @param args Map containing column names and corresponding value
     * @return the KeyHolder containing all generated keys
     */
    KeyHolder executeAndReturnKeyHolder(Map<String, Object> args);

    /**
     * Execute the insert using the values passed in and return the generated keys.  This requires that
     * the name of the columns with auto generated keys have been specified. This method will always return
     * a KeyHolder but the caller must verify that it actually contains the generated keys.
     * @param parameterSource SqlParameterSource containing values to use for insert
     * @return the KeyHolder containing all generated keys
     */
    KeyHolder executeAndReturnKeyHolder(SqlParameterSource parameterSource);

    /**
     * Execute a batch insert using the batch of values passed in.
     * @param batch an array of Maps containing a batch of column names and corresponding value
     * @return the array of number of rows affected as returned by the JDBC driver
     */
    int[] executeBatch(Map<String, Object>[] batch);

    /**
```

```
  * Execute a batch insert using the batch of values passed in.
  * @param batch an array of SqlParameterSource containing values for the batch
  * @return the array of number of rows affected as returned by the JDBC driver
  */
 int[] executeBatch(SqlParameterSource[] batch);

}
/*
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*/

package org.springframework.jdbc.core.simple;

import org.springframework.jdbc.core.support.JdbcDaoSupport;

/**
* Extension of {@link org.springframework.jdbc.core.support.JdbcDaoSupport}
* that exposes a {@link #getSimpleJdbcTemplate() SimpleJdbcTemplate} as well.
* Only usable on Java 5 and above.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @since 2.0
* @see SimpleJdbcTemplate
* @deprecated since Spring 3.1 in favor of {@link org.springframework.jdbc.core.support.JdbcDaoSupport} and
* {@link org.springframework.jdbc.core.namedparam.NamedParameterJdbcDaoSupport}. The JdbcTemplate and
* NamedParameterJdbcTemplate now provide all the functionality of the SimpleJdbcTemplate.
*/
@Deprecated
public class SimpleJdbcDaoSupport extends JdbcDaoSupport {

 private SimpleJdbcTemplate simpleJdbcTemplate;


 /**
  * Create a SimpleJdbcTemplate based on the configured JdbcTemplate.
```

```
 */
@Override
protected void initTemplateConfig() {
 this.simpleJdbcTemplate = new SimpleJdbcTemplate(getJdbcTemplate());
}

/**
 * Return a SimpleJdbcTemplate wrapping the configured JdbcTemplate.
 */
public SimpleJdbcTemplate getSimpleJdbcTemplate() {
  return this.simpleJdbcTemplate;
}

}
/*
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*/

package org.springframework.jdbc.core;

import java.lang.reflect.InvocationHandler;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.lang.reflect.Proxy;
import java.sql.BatchUpdateException;
import java.sql.CallableStatement;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.SQLWarning;
import java.sql.Statement;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.HashMap;
```

```
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import javax.sql.DataSource;

import org.springframework.dao.DataAccessException;
import org.springframework.dao.InvalidDataAccessApiUsageException;
import org.springframework.dao.support.DataAccessUtils;
import org.springframework.jdbc.SQLWarningException;
import org.springframework.jdbc.datasource.ConnectionProxy;
import org.springframework.jdbc.datasource.DataSourceUtils;
import org.springframework.jdbc.support.JdbcAccessor;
import org.springframework.jdbc.support.JdbcUtils;
import org.springframework.jdbc.support.KeyHolder;
import org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor;
import org.springframework.jdbc.support.rowset.SqlRowSet;
import org.springframework.util.Assert;
import org.springframework.util.LinkedCaseInsensitiveMap;
import org.springframework.util.StringUtils;

/**
* <b>This is the central class in the JDBC core package.</b>
* It simplifies the use of JDBC and helps to avoid common errors.
* It executes core JDBC workflow, leaving application code to provide SQL
* and extract results. This class executes SQL queries or updates, initiating
* iteration over ResultSets and catching JDBC exceptions and translating
* them to the generic, more informative exception hierarchy defined in the
* {@code org.springframework.dao} package.
*
* <p>Code using this class need only implement callback interfaces, giving
* them a clearly defined contract. The {@link PreparedStatementCreator} callback
* interface creates a prepared statement given a Connection, providing SQL and
* any necessary parameters. The {@link ResultSetExtractor} interface extracts
* values from a ResultSet. See also {@link PreparedStatementSetter} and
* {@link RowMapper} for two popular alternative callback interfaces.
*
* <p>Can be used within a service implementation via direct instantiation
* with a DataSource reference, or get prepared in an application context
* and given to services as bean reference. Note: The DataSource should
* always be configured as a bean in the application context, in the first case
* given to the service directly, in the second case to the prepared template.
*
* <p>Because this class is parameterizable by the callback interfaces and
* the {@link org.springframework.jdbc.support.SQLExceptionTranslator}
* interface, there should be no need to subclass it.
*
* <p>All SQL operations performed by this class are logged at debug level,
* using "org.springframework.jdbc.core.JdbcTemplate" as log category.
```

```
*
* @author Rod Johnson
* @author Juergen Hoeller
* @author Thomas Risberg
* @since May 3, 2001
* @see PreparedStatementCreator
* @see PreparedStatementSetter
* @see CallableStatementCreator
* @see PreparedStatementCallback
* @see CallableStatementCallback
* @see ResultSetExtractor
* @see RowCallbackHandler
* @see RowMapper
* @see org.springframework.jdbc.support.SQLExceptionTranslator
*/
public class JdbcTemplate extends JdbcAccessor implements JdbcOperations {

 private static final String RETURN_RESULT_SET_PREFIX = "#result-set-";

 private static final String RETURN_UPDATE_COUNT_PREFIX = "#update-count-";


 /** Custom NativeJdbcExtractor */
 private NativeJdbcExtractor nativeJdbcExtractor;

 /** If this variable is false, we will throw exceptions on SQL warnings */
 private boolean ignoreWarnings = true;

 /**
  * If this variable is set to a non-zero value, it will be used for setting the
  * fetchSize property on statements used for query processing.
  */
 private int fetchSize = 0;

 /**
  * If this variable is set to a non-zero value, it will be used for setting the
  * maxRows property on statements used for query processing.
  */
 private int maxRows = 0;

 /**
  * If this variable is set to a non-zero value, it will be used for setting the
  * queryTimeout property on statements used for query processing.
  */
 private int queryTimeout = 0;

 /**
  * If this variable is set to true then all results checking will be bypassed for any
```

```
 * callable statement processing.  This can be used to avoid a bug in some older Oracle
 * JDBC drivers like 10.1.0.2.
 */
private boolean skipResultsProcessing = false;

/**
 * If this variable is set to true then all results from a stored procedure call
 * that don't have a corresponding SqlOutParameter declaration will be bypassed.
 * All other results processing will be take place unless the variable
 * {@code skipResultsProcessing} is set to {@code true}.
 */
private boolean skipUndeclaredResults = false;

/**
 * If this variable is set to true then execution of a CallableStatement will return
 * the results in a Map that uses case insensitive names for the parameters if
 * Commons Collections is available on the classpath.
 */
private boolean resultsMapCaseInsensitive = false;


/**
 * Construct a new JdbcTemplate for bean usage.
 * <p>Note: The DataSource has to be set before using the instance.
 * @see #setDataSource
 */
public JdbcTemplate() {
}

/**
 * Construct a new JdbcTemplate, given a DataSource to obtain connections from.
 * <p>Note: This will not trigger initialization of the exception translator.
 * @param dataSource the JDBC DataSource to obtain connections from
 */
public JdbcTemplate(DataSource dataSource) {
 setDataSource(dataSource);
 afterPropertiesSet();
}

/**
 * Construct a new JdbcTemplate, given a DataSource to obtain connections from.
 * <p>Note: Depending on the "lazyInit" flag, initialization of the exception translator
 * will be triggered.
 * @param dataSource the JDBC DataSource to obtain connections from
 * @param lazyInit whether to lazily initialize the SQLExceptionTranslator
 */
public JdbcTemplate(DataSource dataSource, boolean lazyInit) {
 setDataSource(dataSource);
```

```
 setLazyInit(lazyInit);
 afterPropertiesSet();
}


/**
 * Set a NativeJdbcExtractor to extract native JDBC objects from wrapped handles.
 * Useful if native Statement and/or ResultSet handles are expected for casting
 * to database-specific implementation classes, but a connection pool that wraps
 * JDBC objects is used (note: <i>any</i> pool will return wrapped Connections).
 */
public void setNativeJdbcExtractor(NativeJdbcExtractor extractor) {
 this.nativeJdbcExtractor = extractor;
}

/**
 * Return the current NativeJdbcExtractor implementation.
 */
public NativeJdbcExtractor getNativeJdbcExtractor() {
 return this.nativeJdbcExtractor;
}

/**
 * Set whether or not we want to ignore SQLWarnings.
 * <p>Default is "true", swallowing and logging all warnings. Switch this flag
 * to "false" to make the JdbcTemplate throw a SQLWarningException instead.
 * @see java.sql.SQLWarning
 * @see org.springframework.jdbc.SQLWarningException
 * @see #handleWarnings
 */
public void setIgnoreWarnings(boolean ignoreWarnings) {
 this.ignoreWarnings = ignoreWarnings;
}

/**
 * Return whether or not we ignore SQLWarnings.
 */
public boolean isIgnoreWarnings() {
 return this.ignoreWarnings;
}

/**
 * Set the fetch size for this JdbcTemplate. This is important for processing
 * large result sets: Setting this higher than the default value will increase
 * processing speed at the cost of memory consumption; setting this lower can
 * avoid transferring row data that will never be read by the application.
 * <p>Default is 0, indicating to use the JDBC driver's default.
 * @see java.sql.Statement#setFetchSize
```

```
 */
public void setFetchSize(int fetchSize) {
 this.fetchSize = fetchSize;
}

/**
 * Return the fetch size specified for this JdbcTemplate.
 */
public int getFetchSize() {
 return this.fetchSize;
}

/**
 * Set the maximum number of rows for this JdbcTemplate. This is important
 * for processing subsets of large result sets, avoiding to read and hold
 * the entire result set in the database or in the JDBC driver if we're
 * never interested in the entire result in the first place (for example,
 * when performing searches that might return a large number of matches).
 * <p>Default is 0, indicating to use the JDBC driver's default.
 * @see java.sql.Statement#setMaxRows
 */
public void setMaxRows(int maxRows) {
 this.maxRows = maxRows;
}

/**
 * Return the maximum number of rows specified for this JdbcTemplate.
 */
public int getMaxRows() {
 return this.maxRows;
}

/**
 * Set the query timeout for statements that this JdbcTemplate executes.
 * <p>Default is 0, indicating to use the JDBC driver's default.
 * <p>Note: Any timeout specified here will be overridden by the remaining
 * transaction timeout when executing within a transaction that has a
 * timeout specified at the transaction level.
 * @see java.sql.Statement#setQueryTimeout
 */
public void setQueryTimeout(int queryTimeout) {
 this.queryTimeout = queryTimeout;
}

/**
 * Return the query timeout for statements that this JdbcTemplate executes.
 */
public int getQueryTimeout() {
```

```
 return this.queryTimeout;
}

/**
 * Set whether results processing should be skipped. Can be used to optimize callable
 * statement processing when we know that no results are being passed back - the processing
 * of out parameter will still take place. This can be used to avoid a bug in some older
 * Oracle JDBC drivers like 10.1.0.2.
 */
public void setSkipResultsProcessing(boolean skipResultsProcessing) {
 this.skipResultsProcessing = skipResultsProcessing;
}

/**
 * Return whether results processing should be skipped.
 */
public boolean isSkipResultsProcessing() {
 return this.skipResultsProcessing;
}

/**
 * Set whether undeclared results should be skipped.
 */
public void setSkipUndeclaredResults(boolean skipUndeclaredResults) {
 this.skipUndeclaredResults = skipUndeclaredResults;
}

/**
 * Return whether undeclared results should be skipped.
 */
public boolean isSkipUndeclaredResults() {
 return this.skipUndeclaredResults;
}

/**
 * Set whether execution of a CallableStatement will return the results in a Map
 * that uses case insensitive names for the parameters.
 */
public void setResultsMapCaseInsensitive(boolean resultsMapCaseInsensitive) {
 this.resultsMapCaseInsensitive = resultsMapCaseInsensitive;
}

/**
 * Return whether execution of a CallableStatement will return the results in a Map
 * that uses case insensitive names for the parameters.
 */
public boolean isResultsMapCaseInsensitive() {
 return this.resultsMapCaseInsensitive;
```

```
}


//-------------------------------------------------------------------------
// Methods dealing with a plain java.sql.Connection
//-------------------------------------------------------------------------

@Override
public <T> T execute(ConnectionCallback<T> action) throws DataAccessException {
 Assert.notNull(action, "Callback object must not be null");

 Connection con = DataSourceUtils.getConnection(getDataSource());
 try {
  Connection conToUse = con;
  if (this.nativeJdbcExtractor != null) {
   // Extract native JDBC Connection, castable to OracleConnection or the like.
   conToUse = this.nativeJdbcExtractor.getNativeConnection(con);
  }
  else {
   // Create close-suppressing Connection proxy, also preparing returned Statements.
   conToUse = createConnectionProxy(con);
  }
  return action.doInConnection(conToUse);
 }
 catch (SQLException ex) {
  // Release Connection early, to avoid potential connection pool deadlock
  // in the case when the exception translator hasn't been initialized yet.
  DataSourceUtils.releaseConnection(con, getDataSource());
  con = null;
  throw getExceptionTranslator().translate("ConnectionCallback", getSql(action), ex);
 }
 finally {
  DataSourceUtils.releaseConnection(con, getDataSource());
 }
}

/**
 * Create a close-suppressing proxy for the given JDBC Connection.
 * Called by the {@code execute} method.
 * <p>The proxy also prepares returned JDBC Statements, applying
 * statement settings such as fetch size, max rows, and query timeout.
 * @param con the JDBC Connection to create a proxy for
 * @return the Connection proxy
 * @see java.sql.Connection#close()
 * @see #execute(ConnectionCallback)
 * @see #applyStatementSettings
 */
protected Connection createConnectionProxy(Connection con) {
```

```
 return (Connection) Proxy.newProxyInstance(
   ConnectionProxy.class.getClassLoader(),
   new Class<?>[] {ConnectionProxy.class},
   new CloseSuppressingInvocationHandler(con));
}


//-------------------------------------------------------------------------
// Methods dealing with static SQL (java.sql.Statement)
//-------------------------------------------------------------------------

@Override
public <T> T execute(StatementCallback<T> action) throws DataAccessException {
 Assert.notNull(action, "Callback object must not be null");

 Connection con = DataSourceUtils.getConnection(getDataSource());
 Statement stmt = null;
 try {
  Connection conToUse = con;
  if (this.nativeJdbcExtractor != null &&
    this.nativeJdbcExtractor.isNativeConnectionNecessaryForNativeStatements()) {
   conToUse = this.nativeJdbcExtractor.getNativeConnection(con);
  }
  stmt = conToUse.createStatement();
  applyStatementSettings(stmt);
  Statement stmtToUse = stmt;
  if (this.nativeJdbcExtractor != null) {
   stmtToUse = this.nativeJdbcExtractor.getNativeStatement(stmt);
  }
  T result = action.doInStatement(stmtToUse);
  handleWarnings(stmt);
  return result;
 }
 catch (SQLException ex) {
  // Release Connection early, to avoid potential connection pool deadlock
  // in the case when the exception translator hasn't been initialized yet.
  JdbcUtils.closeStatement(stmt);
  stmt = null;
  DataSourceUtils.releaseConnection(con, getDataSource());
  con = null;
  throw getExceptionTranslator().translate("StatementCallback", getSql(action), ex);
 }
 finally {
  JdbcUtils.closeStatement(stmt);
  DataSourceUtils.releaseConnection(con, getDataSource());
 }
}
```

```
@Override
public void execute(final String sql) throws DataAccessException {
 if (logger.isDebugEnabled()) {
  logger.debug("Executing SQL statement [" + sql + "]");
 }
 class ExecuteStatementCallback implements StatementCallback<Object>, SqlProvider {
  @Override
  public Object doInStatement(Statement stmt) throws SQLException {
   stmt.execute(sql);
   return null;
  }
  @Override
  public String getSql() {
   return sql;
  }
 }
 execute(new ExecuteStatementCallback());
}

@Override
public <T> T query(final String sql, final ResultSetExtractor<T> rse) throws DataAccessException {
 Assert.notNull(sql, "SQL must not be null");
 Assert.notNull(rse, "ResultSetExtractor must not be null");
 if (logger.isDebugEnabled()) {
  logger.debug("Executing SQL query [" + sql + "]");
 }
 class QueryStatementCallback implements StatementCallback<T>, SqlProvider {
  @Override
  public T doInStatement(Statement stmt) throws SQLException {
   ResultSet rs = null;
   try {
    rs = stmt.executeQuery(sql);
    ResultSet rsToUse = rs;
    if (nativeJdbcExtractor != null) {
     rsToUse = nativeJdbcExtractor.getNativeResultSet(rs);
    }
    return rse.extractData(rsToUse);
   }
   finally {
    JdbcUtils.closeResultSet(rs);
   }
  }
  @Override
  public String getSql() {
   return sql;
  }
 }
 return execute(new QueryStatementCallback());
```

```
}

@Override
public void query(String sql, RowCallbackHandler rch) throws DataAccessException {
 query(sql, new RowCallbackHandlerResultSetExtractor(rch));
}

@Override
public <T> List<T> query(String sql, RowMapper<T> rowMapper) throws DataAccessException {
 return query(sql, new RowMapperResultSetExtractor<T>(rowMapper));
}

@Override
public Map<String, Object> queryForMap(String sql) throws DataAccessException {
 return queryForObject(sql, getColumnMapRowMapper());
}

@Override
public <T> T queryForObject(String sql, RowMapper<T> rowMapper) throws DataAccessException {
 List<T> results = query(sql, rowMapper);
 return DataAccessUtils.requiredSingleResult(results);
}

@Override
public <T> T queryForObject(String sql, Class<T> requiredType) throws DataAccessException {
 return queryForObject(sql, getSingleColumnRowMapper(requiredType));
}

@Override
@Deprecated
public long queryForLong(String sql) throws DataAccessException {
 Number number = queryForObject(sql, Long.class);
 return (number != null ? number.longValue() : 0);
}

@Override
@Deprecated
public int queryForInt(String sql) throws DataAccessException {
 Number number = queryForObject(sql, Integer.class);
 return (number != null ? number.intValue() : 0);
}

@Override
public <T> List<T> queryForList(String sql, Class<T> elementType) throws DataAccessException {
 return query(sql, getSingleColumnRowMapper(elementType));
}

@Override
```

```
public List<Map<String, Object>> queryForList(String sql) throws DataAccessException {
 return query(sql, getColumnMapRowMapper());
}

@Override
public SqlRowSet queryForRowSet(String sql) throws DataAccessException {
 return query(sql, new SqlRowSetResultSetExtractor());
}

@Override
public int update(final String sql) throws DataAccessException {
 Assert.notNull(sql, "SQL must not be null");
 if (logger.isDebugEnabled()) {
  logger.debug("Executing SQL update [" + sql + "]");
 }
 class UpdateStatementCallback implements StatementCallback<Integer>, SqlProvider {
  @Override
  public Integer doInStatement(Statement stmt) throws SQLException {
   int rows = stmt.executeUpdate(sql);
   if (logger.isDebugEnabled()) {
    logger.debug("SQL update affected " + rows + " rows");
   }
   return rows;
  }
  @Override
  public String getSql() {
   return sql;
  }
 }
 return execute(new UpdateStatementCallback());
}

@Override
public int[] batchUpdate(final String[] sql) throws DataAccessException {

 Assert.notEmpty(sql, "SQL array must not be empty");

 if (logger.isDebugEnabled()) {
  logger.debug("Executing SQL batch update of " + sql.length + " statements");
 }

 class BatchUpdateStatementCallback implements StatementCallback<int[]>, SqlProvider {

  private String currSql;

  @Override
  public int[] doInStatement(Statement stmt) throws SQLException, DataAccessException {
```

```
 int[] rowsAffected = new int[sql.length];

 if (JdbcUtils.supportsBatchUpdates(stmt.getConnection())) {
  for (String sqlStmt : sql) {
   this.currSql = appendSql(this.currSql, sqlStmt);
   stmt.addBatch(sqlStmt);
  }
  try {
   rowsAffected = stmt.executeBatch();
  }
  catch (BatchUpdateException ex) {
   String batchExceptionSql = null;
   for (int i = 0; i < ex.getUpdateCounts().length; i++) {
    if (ex.getUpdateCounts()[i] == Statement.EXECUTE_FAILED) {
     batchExceptionSql = appendSql(batchExceptionSql, sql[i]);
    }
   }
   if (StringUtils.hasLength(batchExceptionSql)) {
    this.currSql = batchExceptionSql;
   }
   throw ex;
  }
 }
 else {
  for (int i = 0; i < sql.length; i++) {
   this.currSql = sql[i];
   if (!stmt.execute(sql[i])) {
    rowsAffected[i] = stmt.getUpdateCount();
   }
   else {
    throw new InvalidDataAccessApiUsageException("Invalid batch SQL statement: " + sql[i]);
   }
  }
 }
 return rowsAffected;
}

private String appendSql(String sql, String statement) {
 return (StringUtils.isEmpty(sql) ? statement : sql + "; " + statement);
}

@Override
public String getSql() {
 return this.currSql;
}
}
return execute(new BatchUpdateStatementCallback());
}
```

```
//-------------------------------------------------------------------------
// Methods dealing with prepared statements
//-------------------------------------------------------------------------

@Override
public <T> T execute(PreparedStatementCreator psc, PreparedStatementCallback<T> action)
 throws DataAccessException {

 Assert.notNull(psc, "PreparedStatementCreator must not be null");
 Assert.notNull(action, "Callback object must not be null");
 if (logger.isDebugEnabled()) {
  String sql = getSql(psc);
  logger.debug("Executing prepared SQL statement" + (sql != null ? " [" + sql + "]" : ""));
 }

 Connection con = DataSourceUtils.getConnection(getDataSource());
 PreparedStatement ps = null;
 try {
  Connection conToUse = con;
  if (this.nativeJdbcExtractor != null &&
    this.nativeJdbcExtractor.isNativeConnectionNecessaryForNativePreparedStatements()) {
   conToUse = this.nativeJdbcExtractor.getNativeConnection(con);
  }
  ps = psc.createPreparedStatement(conToUse);
  applyStatementSettings(ps);
  PreparedStatement psToUse = ps;
  if (this.nativeJdbcExtractor != null) {
   psToUse = this.nativeJdbcExtractor.getNativePreparedStatement(ps);
  }
  T result = action.doInPreparedStatement(psToUse);
  handleWarnings(ps);
  return result;
 }
 catch (SQLException ex) {
  // Release Connection early, to avoid potential connection pool deadlock
  // in the case when the exception translator hasn't been initialized yet.
  if (psc instanceof ParameterDisposer) {
   ((ParameterDisposer) psc).cleanupParameters();
  }
  String sql = getSql(psc);
  psc = null;
  JdbcUtils.closeStatement(ps);
  ps = null;
  DataSourceUtils.releaseConnection(con, getDataSource());
  con = null;
  throw getExceptionTranslator().translate("PreparedStatementCallback", sql, ex);
```

```
 }
 finally {
  if (psc instanceof ParameterDisposer) {
   ((ParameterDisposer) psc).cleanupParameters();
  }
  JdbcUtils.closeStatement(ps);
  DataSourceUtils.releaseConnection(con, getDataSource());
 }
}

@Override
public <T> T execute(String sql, PreparedStatementCallback<T> action) throws DataAccessException {
 return execute(new SimplePreparedStatementCreator(sql), action);
}

/**
 * Query using a prepared statement, allowing for a PreparedStatementCreator
 * and a PreparedStatementSetter. Most other query methods use this method,
 * but application code will always work with either a creator or a setter.
 * @param psc Callback handler that can create a PreparedStatement given a
 * Connection
 * @param pss object that knows how to set values on the prepared statement.
 * If this is null, the SQL will be assumed to contain no bind parameters.
 * @param rse object that will extract results.
 * @return an arbitrary result object, as returned by the ResultSetExtractor
 * @throws DataAccessException if there is any problem
 */
public <T> T query(
  PreparedStatementCreator psc, final PreparedStatementSetter pss, final ResultSetExtractor<T> rse)
  throws DataAccessException {

 Assert.notNull(rse, "ResultSetExtractor must not be null");
 logger.debug("Executing prepared SQL query");

 return execute(psc, new PreparedStatementCallback<T>() {
  @Override
  public T doInPreparedStatement(PreparedStatement ps) throws SQLException {
   ResultSet rs = null;
   try {
    if (pss != null) {
     pss.setValues(ps);
    }
    rs = ps.executeQuery();
    ResultSet rsToUse = rs;
    if (nativeJdbcExtractor != null) {
     rsToUse = nativeJdbcExtractor.getNativeResultSet(rs);
    }
    return rse.extractData(rsToUse);
```

```
   }
   finally {
    JdbcUtils.closeResultSet(rs);
    if (pss instanceof ParameterDisposer) {
     ((ParameterDisposer) pss).cleanupParameters();
    }
   }
  }
 });
}

@Override
public <T> T query(PreparedStatementCreator psc, ResultSetExtractor<T> rse) throws DataAccessException {
 return query(psc, null, rse);
}

@Override
public <T> T query(String sql, PreparedStatementSetter pss, ResultSetExtractor<T> rse) throws
DataAccessException {
 return query(new SimplePreparedStatementCreator(sql), pss, rse);
}

@Override
public <T> T query(String sql, Object[] args, int[] argTypes, ResultSetExtractor<T> rse) throws
DataAccessException {
 return query(sql, newArgTypePreparedStatementSetter(args, argTypes), rse);
}

@Override
public <T> T query(String sql, Object[] args, ResultSetExtractor<T> rse) throws DataAccessException {
 return query(sql, newArgPreparedStatementSetter(args), rse);
}

@Override
public <T> T query(String sql, ResultSetExtractor<T> rse, Object... args) throws DataAccessException {
 return query(sql, newArgPreparedStatementSetter(args), rse);
}

@Override
public void query(PreparedStatementCreator psc, RowCallbackHandler rch) throws DataAccessException {
 query(psc, new RowCallbackHandlerResultSetExtractor(rch));
}

@Override
public void query(String sql, PreparedStatementSetter pss, RowCallbackHandler rch) throws DataAccessException
{
 query(sql, pss, new RowCallbackHandlerResultSetExtractor(rch));
}
```

```
 @Override
 public void query(String sql, Object[] args, int[] argTypes, RowCallbackHandler rch) throws DataAccessException
{
 query(sql, newArgTypePreparedStatementSetter(args, argTypes), rch);
 }

 @Override
 public void query(String sql, Object[] args, RowCallbackHandler rch) throws DataAccessException {
 query(sql, newArgPreparedStatementSetter(args), rch);
 }

 @Override
 public void query(String sql, RowCallbackHandler rch, Object... args) throws DataAccessException {
 query(sql, newArgPreparedStatementSetter(args), rch);
 }

 @Override
 public <T> List<T> query(PreparedStatementCreator psc, RowMapper<T> rowMapper) throws
DataAccessException {
 return query(psc, new RowMapperResultSetExtractor<T>(rowMapper));
 }

 @Override
 public <T> List<T> query(String sql, PreparedStatementSetter pss, RowMapper<T> rowMapper) throws
DataAccessException {
 return query(sql, pss, new RowMapperResultSetExtractor<T>(rowMapper));
 }

 @Override
 public <T> List<T> query(String sql, Object[] args, int[] argTypes, RowMapper<T> rowMapper) throws
DataAccessException {
 return query(sql, args, argTypes, new RowMapperResultSetExtractor<T>(rowMapper));
 }

 @Override
 public <T> List<T> query(String sql, Object[] args, RowMapper<T> rowMapper) throws DataAccessException {
 return query(sql, args, new RowMapperResultSetExtractor<T>(rowMapper));
 }

 @Override
 public <T> List<T> query(String sql, RowMapper<T> rowMapper, Object... args) throws DataAccessException {
 return query(sql, args, new RowMapperResultSetExtractor<T>(rowMapper));
 }

 @Override
 public <T> T queryForObject(String sql, Object[] args, int[] argTypes, RowMapper<T> rowMapper)
  throws DataAccessException {
```

```
 List<T> results = query(sql, args, argTypes, new RowMapperResultSetExtractor<T>(rowMapper, 1));
 return DataAccessUtils.requiredSingleResult(results);
}

@Override
public <T> T queryForObject(String sql, Object[] args, RowMapper<T> rowMapper) throws DataAccessException
{
 List<T> results = query(sql, args, new RowMapperResultSetExtractor<T>(rowMapper, 1));
 return DataAccessUtils.requiredSingleResult(results);
}

@Override
public <T> T queryForObject(String sql, RowMapper<T> rowMapper, Object... args) throws DataAccessException
{
 List<T> results = query(sql, args, new RowMapperResultSetExtractor<T>(rowMapper, 1));
 return DataAccessUtils.requiredSingleResult(results);
}

@Override
public <T> T queryForObject(String sql, Object[] args, int[] argTypes, Class<T> requiredType)
  throws DataAccessException {

 return queryForObject(sql, args, argTypes, getSingleColumnRowMapper(requiredType));
}

@Override
public <T> T queryForObject(String sql, Object[] args, Class<T> requiredType) throws DataAccessException {
 return queryForObject(sql, args, getSingleColumnRowMapper(requiredType));
}

@Override
public <T> T queryForObject(String sql, Class<T> requiredType, Object... args) throws DataAccessException {
 return queryForObject(sql, args, getSingleColumnRowMapper(requiredType));
}

@Override
public Map<String, Object> queryForMap(String sql, Object[] args, int[] argTypes) throws DataAccessException {
 return queryForObject(sql, args, argTypes, getColumnMapRowMapper());
}

@Override
public Map<String, Object> queryForMap(String sql, Object... args) throws DataAccessException {
 return queryForObject(sql, args, getColumnMapRowMapper());
}

@Override
@Deprecated
```

```
public long queryForLong(String sql, Object[] args, int[] argTypes) throws DataAccessException {
 Number number = queryForObject(sql, args, argTypes, Long.class);
 return (number != null ? number.longValue() : 0);
}

@Override
@Deprecated
public long queryForLong(String sql, Object... args) throws DataAccessException {
 Number number = queryForObject(sql, args, Long.class);
 return (number != null ? number.longValue() : 0);
}

@Override
@Deprecated
public int queryForInt(String sql, Object[] args, int[] argTypes) throws DataAccessException {
 Number number = queryForObject(sql, args, argTypes, Integer.class);
 return (number != null ? number.intValue() : 0);
}

@Override
@Deprecated
public int queryForInt(String sql, Object... args) throws DataAccessException {
 Number number = queryForObject(sql, args, Integer.class);
 return (number != null ? number.intValue() : 0);
}

@Override
public <T> List<T> queryForList(String sql, Object[] args, int[] argTypes, Class<T> elementType) throws
DataAccessException {
 return query(sql, args, argTypes, getSingleColumnRowMapper(elementType));
}

@Override
public <T> List<T> queryForList(String sql, Object[] args, Class<T> elementType) throws DataAccessException {
 return query(sql, args, getSingleColumnRowMapper(elementType));
}

@Override
public <T> List<T> queryForList(String sql, Class<T> elementType, Object... args) throws DataAccessException {
 return query(sql, args, getSingleColumnRowMapper(elementType));
}

@Override
public List<Map<String, Object>> queryForList(String sql, Object[] args, int[] argTypes) throws
DataAccessException {
 return query(sql, args, argTypes, getColumnMapRowMapper());
}
```

```
@Override
public List<Map<String, Object>> queryForList(String sql, Object... args) throws DataAccessException {
 return query(sql, args, getColumnMapRowMapper());
}

@Override
public SqlRowSet queryForRowSet(String sql, Object[] args, int[] argTypes) throws DataAccessException {
 return query(sql, args, argTypes, new SqlRowSetResultSetExtractor());
}

@Override
public SqlRowSet queryForRowSet(String sql, Object... args) throws DataAccessException {
 return query(sql, args, new SqlRowSetResultSetExtractor());
}

protected int update(final PreparedStatementCreator psc, final PreparedStatementSetter pss)
  throws DataAccessException {

 logger.debug("Executing prepared SQL update");
 return execute(psc, new PreparedStatementCallback<Integer>() {
  @Override
  public Integer doInPreparedStatement(PreparedStatement ps) throws SQLException {
   try {
    if (pss != null) {
     pss.setValues(ps);
    }
    int rows = ps.executeUpdate();
    if (logger.isDebugEnabled()) {
     logger.debug("SQL update affected " + rows + " rows");
    }
    return rows;
   }
   finally {
    if (pss instanceof ParameterDisposer) {
     ((ParameterDisposer) pss).cleanupParameters();
    }
   }
  }
 });
}

@Override
public int update(PreparedStatementCreator psc) throws DataAccessException {
 return update(psc, (PreparedStatementSetter) null);
}

@Override
public int update(final PreparedStatementCreator psc, final KeyHolder generatedKeyHolder)
```

```
 throws DataAccessException {

Assert.notNull(generatedKeyHolder, "KeyHolder must not be null");
logger.debug("Executing SQL update and returning generated keys");

return execute(psc, new PreparedStatementCallback<Integer>() {
 @Override
 public Integer doInPreparedStatement(PreparedStatement ps) throws SQLException {
  int rows = ps.executeUpdate();
  List<Map<String, Object>> generatedKeys = generatedKeyHolder.getKeyList();
  generatedKeys.clear();
  ResultSet keys = ps.getGeneratedKeys();
  if (keys != null) {
   try {
    RowMapperResultSetExtractor<Map<String, Object>> rse =
      new RowMapperResultSetExtractor<Map<String, Object>>(getColumnMapRowMapper(), 1);
    generatedKeys.addAll(rse.extractData(keys));
   }
   finally {
    JdbcUtils.closeResultSet(keys);
   }
  }
  if (logger.isDebugEnabled()) {
   logger.debug("SQL update affected " + rows + " rows and returned " + generatedKeys.size() + " keys");
  }
  return rows;
 }
});
}

@Override
public int update(String sql, PreparedStatementSetter pss) throws DataAccessException {
 return update(new SimplePreparedStatementCreator(sql), pss);
}

@Override
public int update(String sql, Object[] args, int[] argTypes) throws DataAccessException {
 return update(sql, newArgTypePreparedStatementSetter(args, argTypes));
}

@Override
public int update(String sql, Object... args) throws DataAccessException {
 return update(sql, newArgPreparedStatementSetter(args));
}

@Override
public int[] batchUpdate(String sql, final BatchPreparedStatementSetter pss) throws DataAccessException {
 if (logger.isDebugEnabled()) {
```

```
 logger.debug("Executing SQL batch update [" + sql + "]");
}

return execute(sql, new PreparedStatementCallback<int[]>() {
 @Override
 public int[] doInPreparedStatement(PreparedStatement ps) throws SQLException {
  try {
   int batchSize = pss.getBatchSize();
   InterruptibleBatchPreparedStatementSetter ipss =
     (pss instanceof InterruptibleBatchPreparedStatementSetter ?
     (InterruptibleBatchPreparedStatementSetter) pss : null);
   if (JdbcUtils.supportsBatchUpdates(ps.getConnection())) {
    for (int i = 0; i < batchSize; i++) {
     pss.setValues(ps, i);
     if (ipss != null && ipss.isBatchExhausted(i)) {
      break;
     }
     ps.addBatch();
    }
    return ps.executeBatch();
   }
   else {
    List<Integer> rowsAffected = new ArrayList<Integer>();
    for (int i = 0; i < batchSize; i++) {
     pss.setValues(ps, i);
     if (ipss != null && ipss.isBatchExhausted(i)) {
      break;
     }
     rowsAffected.add(ps.executeUpdate());
    }
    int[] rowsAffectedArray = new int[rowsAffected.size()];
    for (int i = 0; i < rowsAffectedArray.length; i++) {
     rowsAffectedArray[i] = rowsAffected.get(i);
    }
    return rowsAffectedArray;
   }
  }
  finally {
   if (pss instanceof ParameterDisposer) {
    ((ParameterDisposer) pss).cleanupParameters();
   }
  }
 }
});
}

@Override
public int[] batchUpdate(String sql, List<Object[]> batchArgs) {
```

```
 return batchUpdate(sql, batchArgs, new int[0]);
 }

 @Override
 public int[] batchUpdate(String sql, List<Object[]> batchArgs, int[] argTypes) {
  return BatchUpdateUtils.executeBatchUpdate(sql, batchArgs, argTypes, this);
 }

 /*
  * (non-Javadoc)
  * @see org.springframework.jdbc.core.JdbcOperations#batchUpdate(java.lang.String, java.util.Collection, int,
org.springframework.jdbc.core.ParameterizedPreparedStatementSetter)
  *
  * Contribution by Nicolas Fabre
  */
 @Override
 public <T> int[][] batchUpdate(String sql, final Collection<T> batchArgs, final int batchSize, final
ParameterizedPreparedStatementSetter<T> pss) {
  if (logger.isDebugEnabled()) {
   logger.debug("Executing SQL batch update [" + sql + "] with a batch size of " + batchSize);
  }
  return execute(sql, new PreparedStatementCallback<int[][]>() {
   @Override
   public int[][] doInPreparedStatement(PreparedStatement ps) throws SQLException {
    List<int[]> rowsAffected = new ArrayList<int[]>();
    try {
     boolean batchSupported = true;
     if (!JdbcUtils.supportsBatchUpdates(ps.getConnection())) {
      batchSupported = false;
      logger.warn("JDBC Driver does not support Batch updates; resorting to single statement execution");
     }
     int n = 0;
     for (T obj : batchArgs) {
      pss.setValues(ps, obj);
      n++;
      if (batchSupported) {
       ps.addBatch();
       if (n % batchSize == 0 || n == batchArgs.size()) {
        if (logger.isDebugEnabled()) {
         int batchIdx = (n % batchSize == 0) ? n / batchSize : (n / batchSize) + 1;
         int items = n - ((n % batchSize == 0) ? n / batchSize - 1 : (n / batchSize)) * batchSize;
         logger.debug("Sending SQL batch update #" + batchIdx + " with " + items + " items");
        }
        rowsAffected.add(ps.executeBatch());
       }
      }
      else {
       int i = ps.executeUpdate();
```

```
      rowsAffected.add(new int[] {i});
     }
    }
    int[][] result = new int[rowsAffected.size()][];
    for (int i = 0; i < result.length; i++) {
     result[i] = rowsAffected.get(i);
    }
    return result;
   } finally {
    if (pss instanceof ParameterDisposer) {
     ((ParameterDisposer) pss).cleanupParameters();
    }
   }
  }
 });
}

//-------------------------------------------------------------------------
// Methods dealing with callable statements
//-------------------------------------------------------------------------

@Override
public <T> T execute(CallableStatementCreator csc, CallableStatementCallback<T> action)
  throws DataAccessException {

 Assert.notNull(csc, "CallableStatementCreator must not be null");
 Assert.notNull(action, "Callback object must not be null");
 if (logger.isDebugEnabled()) {
  String sql = getSql(csc);
  logger.debug("Calling stored procedure" + (sql != null ? " [" + sql  + "]" : ""));
 }

 Connection con = DataSourceUtils.getConnection(getDataSource());
 CallableStatement cs = null;
 try {
  Connection conToUse = con;
  if (this.nativeJdbcExtractor != null) {
   conToUse = this.nativeJdbcExtractor.getNativeConnection(con);
  }
  cs = csc.createCallableStatement(conToUse);
  applyStatementSettings(cs);
  CallableStatement csToUse = cs;
  if (this.nativeJdbcExtractor != null) {
   csToUse = this.nativeJdbcExtractor.getNativeCallableStatement(cs);
  }
  T result = action.doInCallableStatement(csToUse);
  handleWarnings(cs);
  return result;
```

```
 }
 catch (SQLException ex) {
  // Release Connection early, to avoid potential connection pool deadlock
  // in the case when the exception translator hasn't been initialized yet.
  if (csc instanceof ParameterDisposer) {
   ((ParameterDisposer) csc).cleanupParameters();
  }
  String sql = getSql(csc);
  csc = null;
  JdbcUtils.closeStatement(cs);
  cs = null;
  DataSourceUtils.releaseConnection(con, getDataSource());
  con = null;
  throw getExceptionTranslator().translate("CallableStatementCallback", sql, ex);
 }
 finally {
  if (csc instanceof ParameterDisposer) {
   ((ParameterDisposer) csc).cleanupParameters();
  }
  JdbcUtils.closeStatement(cs);
  DataSourceUtils.releaseConnection(con, getDataSource());
 }
}

@Override
public <T> T execute(String callString, CallableStatementCallback<T> action) throws DataAccessException {
 return execute(new SimpleCallableStatementCreator(callString), action);
}

@Override
public Map<String, Object> call(CallableStatementCreator csc, List<SqlParameter> declaredParameters)
  throws DataAccessException {

 final List<SqlParameter> updateCountParameters = new ArrayList<SqlParameter>();
 final List<SqlParameter> resultSetParameters = new ArrayList<SqlParameter>();
 final List<SqlParameter> callParameters = new ArrayList<SqlParameter>();
 for (SqlParameter parameter : declaredParameters) {
  if (parameter.isResultsParameter()) {
   if (parameter instanceof SqlReturnResultSet) {
    resultSetParameters.add(parameter);
   }
   else {
    updateCountParameters.add(parameter);
   }
  }
  else {
   callParameters.add(parameter);
  }
```

```
 }
 return execute(csc, new CallableStatementCallback<Map<String, Object>>() {
  @Override
  public Map<String, Object> doInCallableStatement(CallableStatement cs) throws SQLException {
   boolean retVal = cs.execute();
   int updateCount = cs.getUpdateCount();
   if (logger.isDebugEnabled()) {
    logger.debug("CallableStatement.execute() returned '" + retVal + "'");
    logger.debug("CallableStatement.getUpdateCount() returned " + updateCount);
   }
   Map<String, Object> returnedResults = createResultsMap();
   if (retVal || updateCount != -1) {
    returnedResults.putAll(extractReturnedResults(cs, updateCountParameters, resultSetParameters, updateCount));
   }
   returnedResults.putAll(extractOutputParameters(cs, callParameters));
   return returnedResults;
  }
 });
}

/**
 * Extract returned ResultSets from the completed stored procedure.
 * @param cs JDBC wrapper for the stored procedure
 * @param updateCountParameters Parameter list of declared update count parameters for the stored procedure
 * @param resultSetParameters Parameter list of declared resultSet parameters for the stored procedure
 * @return Map that contains returned results
 */
protected Map<String, Object> extractReturnedResults(CallableStatement cs,
  List<SqlParameter> updateCountParameters, List<SqlParameter> resultSetParameters, int updateCount)
  throws SQLException {

 Map<String, Object> returnedResults = new HashMap<String, Object>();
 int rsIndex = 0;
 int updateIndex = 0;
 boolean moreResults;
 if (!this.skipResultsProcessing) {
  do {
   if (updateCount == -1) {
    if (resultSetParameters != null && resultSetParameters.size() > rsIndex) {
     SqlReturnResultSet declaredRsParam = (SqlReturnResultSet) resultSetParameters.get(rsIndex);
     returnedResults.putAll(processResultSet(cs.getResultSet(), declaredRsParam));
     rsIndex++;
    }
    else {
     if (!this.skipUndeclaredResults) {
      String rsName = RETURN_RESULT_SET_PREFIX + (rsIndex + 1);
      SqlReturnResultSet undeclaredRsParam = new SqlReturnResultSet(rsName, new ColumnMapRowMapper());
      if (logger.isDebugEnabled()) {
```

```
      logger.debug("Added default SqlReturnResultSet parameter named '" + rsName + "'");
     }
     returnedResults.putAll(processResultSet(cs.getResultSet(), undeclaredRsParam));
     rsIndex++;
    }
   }
  }
  else {
   if (updateCountParameters != null && updateCountParameters.size() > updateIndex) {
    SqlReturnUpdateCount ucParam = (SqlReturnUpdateCount) updateCountParameters.get(updateIndex);
    String declaredUcName = ucParam.getName();
    returnedResults.put(declaredUcName, updateCount);
    updateIndex++;
   }
   else {
    if (!this.skipUndeclaredResults) {
     String undeclaredName = RETURN_UPDATE_COUNT_PREFIX + (updateIndex + 1);
     if (logger.isDebugEnabled()) {
      logger.debug("Added default SqlReturnUpdateCount parameter named '" + undeclaredName + "'");
     }
     returnedResults.put(undeclaredName, updateCount);
     updateIndex++;
    }
   }
  }
  moreResults = cs.getMoreResults();
  updateCount = cs.getUpdateCount();
  if (logger.isDebugEnabled()) {
   logger.debug("CallableStatement.getUpdateCount() returned " + updateCount);
  }
 }
 while (moreResults || updateCount != -1);
}
return returnedResults;
}

/**
 * Extract output parameters from the completed stored procedure.
 * @param cs JDBC wrapper for the stored procedure
 * @param parameters parameter list for the stored procedure
 * @return Map that contains returned results
 */
protected Map<String, Object> extractOutputParameters(CallableStatement cs, List<SqlParameter> parameters)
 throws SQLException {

 Map<String, Object> returnedResults = new HashMap<String, Object>();
 int sqlColIndex = 1;
 for (SqlParameter param : parameters) {
```

```
  if (param instanceof SqlOutParameter) {
   SqlOutParameter outParam = (SqlOutParameter) param;
   if (outParam.isReturnTypeSupported()) {
    Object out = outParam.getSqlReturnType().getTypeValue(
      cs, sqlColIndex, outParam.getSqlType(), outParam.getTypeName());
    returnedResults.put(outParam.getName(), out);
   }
   else {
    Object out = cs.getObject(sqlColIndex);
    if (out instanceof ResultSet) {
     if (outParam.isResultSetSupported()) {
      returnedResults.putAll(processResultSet((ResultSet) out, outParam));
     }
     else {
      String rsName = outParam.getName();
      SqlReturnResultSet rsParam = new SqlReturnResultSet(rsName, new ColumnMapRowMapper());
      returnedResults.putAll(processResultSet((ResultSet) out, rsParam));
      if (logger.isDebugEnabled()) {
       logger.debug("Added default SqlReturnResultSet parameter named '" + rsName + "'");
      }
     }
    }
    else {
     returnedResults.put(outParam.getName(), out);
    }
   }
  }
  if (!(param.isResultsParameter())) {
   sqlColIndex++;
  }
 }
 return returnedResults;
}

/**
 * Process the given ResultSet from a stored procedure.
 * @param rs the ResultSet to process
 * @param param the corresponding stored procedure parameter
 * @return Map that contains returned results
 */
@SuppressWarnings({ "unchecked", "rawtypes" })
protected Map<String, Object> processResultSet(ResultSet rs, ResultSetSupportingSqlParameter param) throws
SQLException {
 if (rs == null) {
  return Collections.emptyMap();
 }
 Map<String, Object> returnedResults = new HashMap<String, Object>();
 try {
```

```
 ResultSet rsToUse = rs;
 if (this.nativeJdbcExtractor != null) {
  rsToUse = this.nativeJdbcExtractor.getNativeResultSet(rs);
 }
 if (param.getRowMapper() != null) {
  RowMapper rowMapper = param.getRowMapper();
  Object result = (new RowMapperResultSetExtractor(rowMapper)).extractData(rsToUse);
  returnedResults.put(param.getName(), result);
 }
 else if (param.getRowCallbackHandler() != null) {
  RowCallbackHandler rch = param.getRowCallbackHandler();
  (new RowCallbackHandlerResultSetExtractor(rch)).extractData(rsToUse);
  returnedResults.put(param.getName(), "ResultSet returned from stored procedure was processed");
 }
 else if (param.getResultSetExtractor() != null) {
  Object result = param.getResultSetExtractor().extractData(rsToUse);
  returnedResults.put(param.getName(), result);
 }
 }
 finally {
  JdbcUtils.closeResultSet(rs);
 }
 return returnedResults;
}


//-------------------------------------------------------------------------
// Implementation hooks and helper methods
//-------------------------------------------------------------------------

/**
 * Create a new RowMapper for reading columns as key-value pairs.
 * @return the RowMapper to use
 * @see ColumnMapRowMapper
 */
protected RowMapper<Map<String, Object>> getColumnMapRowMapper() {
 return new ColumnMapRowMapper();
}

/**
 * Create a new RowMapper for reading result objects from a single column.
 * @param requiredType the type that each result object is expected to match
 * @return the RowMapper to use
 * @see SingleColumnRowMapper
 */
protected <T> RowMapper<T> getSingleColumnRowMapper(Class<T> requiredType) {
 return new SingleColumnRowMapper<T>(requiredType);
}
```

```
/**
 * Create a Map instance to be used as results map.
 * <p>If "isResultsMapCaseInsensitive" has been set to true,
 * a linked case-insensitive Map will be created.
 * @return the results Map instance
 * @see #setResultsMapCaseInsensitive
 */
protected Map<String, Object> createResultsMap() {
 if (isResultsMapCaseInsensitive()) {
  return new LinkedCaseInsensitiveMap<Object>();
 }
 else {
  return new LinkedHashMap<String, Object>();
 }
}

/**
 * Prepare the given JDBC Statement (or PreparedStatement or CallableStatement),
 * applying statement settings such as fetch size, max rows, and query timeout.
 * @param stmt the JDBC Statement to prepare
 * @throws SQLException if thrown by JDBC API
 * @see #setFetchSize
 * @see #setMaxRows
 * @see #setQueryTimeout
 * @see org.springframework.jdbc.datasource.DataSourceUtils#applyTransactionTimeout
 */
protected void applyStatementSettings(Statement stmt) throws SQLException {
 int fetchSize = getFetchSize();
 if (fetchSize > 0) {
  stmt.setFetchSize(fetchSize);
 }
 int maxRows = getMaxRows();
 if (maxRows > 0) {
  stmt.setMaxRows(maxRows);
 }
 DataSourceUtils.applyTimeout(stmt, getDataSource(), getQueryTimeout());
}

/**
 * Create a new arg-based PreparedStatementSetter using the args passed in.
 * <p>By default, we'll create an {@link ArgumentPreparedStatementSetter}.
 * This method allows for the creation to be overridden by subclasses.
 * @param args object array with arguments
 * @return the new PreparedStatementSetter to use
 */
protected PreparedStatementSetter newArgPreparedStatementSetter(Object[] args) {
 return new ArgumentPreparedStatementSetter(args);
```

```
}

/**
 * Create a new arg-type-based PreparedStatementSetter using the args and types passed in.
 * <p>By default, we'll create an {@link ArgumentTypePreparedStatementSetter}.
 * This method allows for the creation to be overridden by subclasses.
 * @param args object array with arguments
 * @param argTypes int array of SQLTypes for the associated arguments
 * @return the new PreparedStatementSetter to use
 */
protected PreparedStatementSetter newArgTypePreparedStatementSetter(Object[] args, int[] argTypes) {
 return new ArgumentTypePreparedStatementSetter(args, argTypes);
}

/**
 * Throw an SQLWarningException if we're not ignoring warnings,
 * else log the warnings (at debug level).
 * @param stmt the current JDBC statement
 * @throws SQLWarningException if not ignoring warnings
 * @see org.springframework.jdbc.SQLWarningException
 */
protected void handleWarnings(Statement stmt) throws SQLException {
 if (isIgnoreWarnings()) {
  if (logger.isDebugEnabled()) {
   SQLWarning warningToLog = stmt.getWarnings();
   while (warningToLog != null) {
    logger.debug("SQLWarning ignored: SQL state '" + warningToLog.getSQLState() + "', error code '" +
      warningToLog.getErrorCode() + "', message [" + warningToLog.getMessage() + "]");
    warningToLog = warningToLog.getNextWarning();
   }
  }
 }
 else {
  handleWarnings(stmt.getWarnings());
 }
}

/**
 * Throw an SQLWarningException if encountering an actual warning.
 * @param warning the warnings object from the current statement.
 * May be {@code null}, in which case this method does nothing.
 * @throws SQLWarningException in case of an actual warning to be raised
 */
protected void handleWarnings(SQLWarning warning) throws SQLWarningException {
 if (warning != null) {
  throw new SQLWarningException("Warning not ignored", warning);
 }
}
```

```
/**
 * Determine SQL from potential provider object.
 * @param sqlProvider object that's potentially a SqlProvider
 * @return the SQL string, or {@code null}
 * @see SqlProvider
 */
private static String getSql(Object sqlProvider) {
 if (sqlProvider instanceof SqlProvider) {
  return ((SqlProvider) sqlProvider).getSql();
 }
 else {
  return null;
 }
}


/**
 * Invocation handler that suppresses close calls on JDBC Connections.
 * Also prepares returned Statement (Prepared/CallbackStatement) objects.
 * @see java.sql.Connection#close()
 */
private class CloseSuppressingInvocationHandler implements InvocationHandler {

 private final Connection target;

 public CloseSuppressingInvocationHandler(Connection target) {
  this.target = target;
 }

 @Override
 @SuppressWarnings("rawtypes")
 public Object invoke(Object proxy, Method method, Object[] args) throws Throwable {
  // Invocation on ConnectionProxy interface coming in...

  if (method.getName().equals("equals")) {
   // Only consider equal when proxies are identical.
   return (proxy == args[0]);
  }
  else if (method.getName().equals("hashCode")) {
   // Use hashCode of PersistenceManager proxy.
   return System.identityHashCode(proxy);
  }
  else if (method.getName().equals("unwrap")) {
   if (((Class) args[0]).isInstance(proxy)) {
    return proxy;
   }
  }
```

```
 else if (method.getName().equals("isWrapperFor")) {
  if (((Class) args[0]).isInstance(proxy)) {
   return true;
  }
 }
 else if (method.getName().equals("close")) {
  // Handle close method: suppress, not valid.
  return null;
 }
 else if (method.getName().equals("isClosed")) {
  return false;
 }
 else if (method.getName().equals("getTargetConnection")) {
  // Handle getTargetConnection method: return underlying Connection.
  return this.target;
 }

 // Invoke method on target Connection.
 try {
  Object retVal = method.invoke(this.target, args);

  // If return value is a JDBC Statement, apply statement settings
  // (fetch size, max rows, transaction timeout).
  if (retVal instanceof Statement) {
   applyStatementSettings(((Statement) retVal));
  }

  return retVal;
 }
 catch (InvocationTargetException ex) {
  throw ex.getTargetException();
 }
}
}


/**
 * Simple adapter for PreparedStatementCreator, allowing to use a plain SQL statement.
 */
private static class SimplePreparedStatementCreator implements PreparedStatementCreator, SqlProvider {

 private final String sql;

 public SimplePreparedStatementCreator(String sql) {
  Assert.notNull(sql, "SQL must not be null");
  this.sql = sql;
 }
```

```
 @Override
 public PreparedStatement createPreparedStatement(Connection con) throws SQLException {
  return con.prepareStatement(this.sql);
 }

 @Override
 public String getSql() {
  return this.sql;
 }
}


/**
 * Simple adapter for CallableStatementCreator, allowing to use a plain SQL statement.
 */
private static class SimpleCallableStatementCreator implements CallableStatementCreator, SqlProvider {

 private final String callString;

 public SimpleCallableStatementCreator(String callString) {
  Assert.notNull(callString, "Call string must not be null");
  this.callString = callString;
 }

 @Override
 public CallableStatement createCallableStatement(Connection con) throws SQLException {
  return con.prepareCall(this.callString);
 }

 @Override
 public String getSql() {
  return this.callString;
 }
}


/**
 * Adapter to enable use of a RowCallbackHandler inside a ResultSetExtractor.
 * <p>Uses a regular ResultSet, so we have to be careful when using it:
 * We don't use it for navigating since this could lead to unpredictable consequences.
 */
private static class RowCallbackHandlerResultSetExtractor implements ResultSetExtractor<Object> {

 private final RowCallbackHandler rch;

 public RowCallbackHandlerResultSetExtractor(RowCallbackHandler rch) {
  this.rch = rch;
 }
```

```
  @Override
  public Object extractData(ResultSet rs) throws SQLException {
   while (rs.next()) {
    this.rch.processRow(rs);
   }
   return null;
  }
 }

}
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*/

package org.springframework.jdbc.core.namedparam;

import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import javax.sql.DataSource;

import org.springframework.dao.DataAccessException;
import org.springframework.dao.support.DataAccessUtils;
import org.springframework.jdbc.core.ColumnMapRowMapper;
import org.springframework.jdbc.core.JdbcOperations;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.jdbc.core.PreparedStatementCallback;
import org.springframework.jdbc.core.PreparedStatementCreator;
import org.springframework.jdbc.core.PreparedStatementCreatorFactory;
import org.springframework.jdbc.core.ResultSetExtractor;
import org.springframework.jdbc.core.RowCallbackHandler;
import org.springframework.jdbc.core.RowMapper;
import org.springframework.jdbc.core.SingleColumnRowMapper;
import org.springframework.jdbc.core.SqlParameter;
import org.springframework.jdbc.core.SqlRowSetResultSetExtractor;
```

```
import org.springframework.jdbc.support.KeyHolder;
import org.springframework.jdbc.support.rowset.SqlRowSet;
import org.springframework.util.Assert;

/**
* Template class with a basic set of JDBC operations, allowing the use
* of named parameters rather than traditional '?' placeholders.
*
* <p>This class delegates to a wrapped {@link #getJdbcOperations() JdbcTemplate}
* once the substitution from named parameters to JDBC style '?' placeholders is
* done at execution time. It also allows for expanding a {@link java.util.List}
* of values to the appropriate number of placeholders.
*
* <p>The underlying {@link org.springframework.jdbc.core.JdbcTemplate} is
* exposed to allow for convenient access to the traditional
* {@link org.springframework.jdbc.core.JdbcTemplate} methods.
*
* @author Thomas Risberg
* @author Juergen Hoeller
* @since 2.0
* @see NamedParameterJdbcOperations
* @see org.springframework.jdbc.core.JdbcTemplate
*/
public class NamedParameterJdbcTemplate implements NamedParameterJdbcOperations {

 /** Default maximum number of entries for this template's SQL cache: 256 */
 public static final int DEFAULT_CACHE_LIMIT = 256;


 /** The JdbcTemplate we are wrapping */
 private final JdbcOperations classicJdbcTemplate;

 private volatile int cacheLimit = DEFAULT_CACHE_LIMIT;

 /** Cache of original SQL String to ParsedSql representation */
 @SuppressWarnings("serial")
 private final Map<String, ParsedSql> parsedSqlCache =
   new LinkedHashMap<String, ParsedSql>(DEFAULT_CACHE_LIMIT, 0.75f, true) {
    @Override
    protected boolean removeEldestEntry(Map.Entry<String, ParsedSql> eldest) {
     return size() > getCacheLimit();
    }
   };


 /**
  * Create a new NamedParameterJdbcTemplate for the given {@link DataSource}.
  * <p>Creates a classic Spring {@link org.springframework.jdbc.core.JdbcTemplate} and wraps it.
```

```
 * @param dataSource the JDBC DataSource to access
 */
public NamedParameterJdbcTemplate(DataSource dataSource) {
 Assert.notNull(dataSource, "DataSource must not be null");
 this.classicJdbcTemplate = new JdbcTemplate(dataSource);
}

/**
 * Create a new NamedParameterJdbcTemplate for the given classic
 * Spring {@link org.springframework.jdbc.core.JdbcTemplate}.
 * @param classicJdbcTemplate the classic Spring JdbcTemplate to wrap
 */
public NamedParameterJdbcTemplate(JdbcOperations classicJdbcTemplate) {
 Assert.notNull(classicJdbcTemplate, "JdbcTemplate must not be null");
 this.classicJdbcTemplate = classicJdbcTemplate;
}


/**
 * Expose the classic Spring JdbcTemplate to allow invocation of
 * less commonly used methods.
 */
@Override
public JdbcOperations getJdbcOperations() {
 return this.classicJdbcTemplate;
}

/**
 * Specify the maximum number of entries for this template's SQL cache.
 * Default is 256.
 */
public void setCacheLimit(int cacheLimit) {
 this.cacheLimit = cacheLimit;
}

/**
 * Return the maximum number of entries for this template's SQL cache.
 */
public int getCacheLimit() {
 return this.cacheLimit;
}


@Override
public <T> T execute(String sql, SqlParameterSource paramSource, PreparedStatementCallback<T> action)
  throws DataAccessException {

 return getJdbcOperations().execute(getPreparedStatementCreator(sql, paramSource), action);
```

```
}

@Override
public <T> T execute(String sql, Map<String, ?> paramMap, PreparedStatementCallback<T> action)
  throws DataAccessException {

 return execute(sql, new MapSqlParameterSource(paramMap), action);
}

@Override
public <T> T execute(String sql, PreparedStatementCallback<T> action) throws DataAccessException {
 return execute(sql, EmptySqlParameterSource.INSTANCE, action);
}

@Override
public <T> T query(String sql, SqlParameterSource paramSource, ResultSetExtractor<T> rse)
  throws DataAccessException {

 return getJdbcOperations().query(getPreparedStatementCreator(sql, paramSource), rse);
}

@Override
public <T> T query(String sql, Map<String, ?> paramMap, ResultSetExtractor<T> rse)
  throws DataAccessException {

 return query(sql, new MapSqlParameterSource(paramMap), rse);
}

@Override
public <T> T query(String sql, ResultSetExtractor<T> rse) throws DataAccessException {
 return query(sql, EmptySqlParameterSource.INSTANCE, rse);
}

@Override
public void query(String sql, SqlParameterSource paramSource, RowCallbackHandler rch)
  throws DataAccessException {

 getJdbcOperations().query(getPreparedStatementCreator(sql, paramSource), rch);
}

@Override
public void query(String sql, Map<String, ?> paramMap, RowCallbackHandler rch)
  throws DataAccessException {

 query(sql, new MapSqlParameterSource(paramMap), rch);
}

@Override
```

```
public void query(String sql, RowCallbackHandler rch) throws DataAccessException {
 query(sql, EmptySqlParameterSource.INSTANCE, rch);
}

@Override
public <T> List<T> query(String sql, SqlParameterSource paramSource, RowMapper<T> rowMapper)
  throws DataAccessException {

 return getJdbcOperations().query(getPreparedStatementCreator(sql, paramSource), rowMapper);
}

@Override
public <T> List<T> query(String sql, Map<String, ?> paramMap, RowMapper<T> rowMapper)
  throws DataAccessException {

 return query(sql, new MapSqlParameterSource(paramMap), rowMapper);
}

@Override
public <T> List<T> query(String sql, RowMapper<T> rowMapper) throws DataAccessException {
 return query(sql, EmptySqlParameterSource.INSTANCE, rowMapper);
}

@Override
public <T> T queryForObject(String sql, SqlParameterSource paramSource, RowMapper<T> rowMapper)
  throws DataAccessException {

 List<T> results = getJdbcOperations().query(getPreparedStatementCreator(sql, paramSource), rowMapper);
 return DataAccessUtils.requiredSingleResult(results);
}

@Override
public <T> T queryForObject(String sql, Map<String, ?> paramMap, RowMapper<T>rowMapper)
  throws DataAccessException {

 return queryForObject(sql, new MapSqlParameterSource(paramMap), rowMapper);
}

@Override
public <T> T queryForObject(String sql, SqlParameterSource paramSource, Class<T> requiredType)
  throws DataAccessException {

 return queryForObject(sql, paramSource, new SingleColumnRowMapper<T>(requiredType));
}

@Override
public <T> T queryForObject(String sql, Map<String, ?> paramMap, Class<T> requiredType)
  throws DataAccessException {
```

```
 return queryForObject(sql, paramMap, new SingleColumnRowMapper<T>(requiredType));
}

@Override
public Map<String, Object> queryForMap(String sql, SqlParameterSource paramSource) throws
DataAccessException {
 return queryForObject(sql, paramSource, new ColumnMapRowMapper());
}

@Override
public Map<String, Object> queryForMap(String sql, Map<String, ?> paramMap) throws DataAccessException {
 return queryForObject(sql, paramMap, new ColumnMapRowMapper());
}

@Override
@Deprecated
public long queryForLong(String sql, SqlParameterSource paramSource) throws DataAccessException {
 Number number = queryForObject(sql, paramSource, Long.class);
 return (number != null ? number.longValue() : 0);
}

@Override
@Deprecated
public long queryForLong(String sql, Map<String, ?> paramMap) throws DataAccessException {
 return queryForLong(sql, new MapSqlParameterSource(paramMap));
}

@Override
@Deprecated
public int queryForInt(String sql, SqlParameterSource paramSource) throws DataAccessException {
 Number number = queryForObject(sql, paramSource, Integer.class);
 return (number != null ? number.intValue() : 0);
}

@Override
@Deprecated
public int queryForInt(String sql, Map<String, ?> paramMap) throws DataAccessException {
 return queryForInt(sql, new MapSqlParameterSource(paramMap));
}

@Override
public <T> List<T> queryForList(String sql, SqlParameterSource paramSource, Class<T> elementType)
  throws DataAccessException {

 return query(sql, paramSource, new SingleColumnRowMapper<T>(elementType));
}
```

```
@Override
public <T> List<T> queryForList(String sql, Map<String, ?> paramMap, Class<T> elementType)
  throws DataAccessException {

 return queryForList(sql, new MapSqlParameterSource(paramMap), elementType);
}

@Override
public List<Map<String, Object>> queryForList(String sql, SqlParameterSource paramSource)
  throws DataAccessException {

 return query(sql, paramSource, new ColumnMapRowMapper());
}

@Override
public List<Map<String, Object>> queryForList(String sql, Map<String, ?> paramMap)
  throws DataAccessException {

 return queryForList(sql, new MapSqlParameterSource(paramMap));
}

@Override
public SqlRowSet queryForRowSet(String sql, SqlParameterSource paramSource) throws DataAccessException {
 return getJdbcOperations().query(
   getPreparedStatementCreator(sql, paramSource), new SqlRowSetResultSetExtractor());
}

@Override
public SqlRowSet queryForRowSet(String sql, Map<String, ?> paramMap) throws DataAccessException {
 return queryForRowSet(sql, new MapSqlParameterSource(paramMap));
}

@Override
public int update(String sql, SqlParameterSource paramSource) throws DataAccessException {
 return getJdbcOperations().update(getPreparedStatementCreator(sql, paramSource));
}

@Override
public int update(String sql, Map<String, ?> paramMap) throws DataAccessException {
 return update(sql, new MapSqlParameterSource(paramMap));
}

@Override
public int update(String sql, SqlParameterSource paramSource, KeyHolder generatedKeyHolder)
  throws DataAccessException {

 return update(sql, paramSource, generatedKeyHolder, null);
}
```

```
@Override
public int update(
  String sql, SqlParameterSource paramSource, KeyHolder generatedKeyHolder, String[] keyColumnNames)
  throws DataAccessException {

 ParsedSql parsedSql = getParsedSql(sql);
 String sqlToUse = NamedParameterUtils.substituteNamedParameters(parsedSql, paramSource);
 Object[] params = NamedParameterUtils.buildValueArray(parsedSql, paramSource, null);
 List<SqlParameter> declaredParameters = NamedParameterUtils.buildSqlParameterList(parsedSql, paramSource);
 PreparedStatementCreatorFactory pscf = new PreparedStatementCreatorFactory(sqlToUse, declaredParameters);
 if (keyColumnNames != null) {
  pscf.setGeneratedKeysColumnNames(keyColumnNames);
 }
 else {
  pscf.setReturnGeneratedKeys(true);
 }
 return getJdbcOperations().update(pscf.newPreparedStatementCreator(params), generatedKeyHolder);
}

@Override
public int[] batchUpdate(String sql, Map<String, ?>[] batchValues) {
 SqlParameterSource[] batchArgs = new SqlParameterSource[batchValues.length];
 int i = 0;
 for (Map<String, ?> values : batchValues) {
  batchArgs[i] = new MapSqlParameterSource(values);
  i++;
 }
 return batchUpdate(sql, batchArgs);
}

@Override
public int[] batchUpdate(String sql, SqlParameterSource[] batchArgs) {
 ParsedSql parsedSql = this.getParsedSql(sql);
 return NamedParameterBatchUpdateUtils.executeBatchUpdateWithNamedParameters(parsedSql, batchArgs,
getJdbcOperations());
 }

/**
 * Build a PreparedStatementCreator based on the given SQL and named parameters.
 * <p>Note: Not used for the {@code update} variant with generated key handling.
 * @param sql SQL to execute
 * @param paramSource container of arguments to bind
 * @return the corresponding PreparedStatementCreator
 */
protected PreparedStatementCreator getPreparedStatementCreator(String sql, SqlParameterSource paramSource) {
 ParsedSql parsedSql = getParsedSql(sql);
 String sqlToUse = NamedParameterUtils.substituteNamedParameters(parsedSql, paramSource);
```

```
 Object[] params = NamedParameterUtils.buildValueArray(parsedSql, paramSource, null);
 List<SqlParameter> declaredParameters = NamedParameterUtils.buildSqlParameterList(parsedSql, paramSource);
 PreparedStatementCreatorFactory pscf = new PreparedStatementCreatorFactory(sqlToUse, declaredParameters);
 return pscf.newPreparedStatementCreator(params);
}

/**
 * Obtain a parsed representation of the given SQL statement.
 * <p>The default implementation uses an LRU cache with an upper limit
 * of 256 entries.
 * @param sql the original SQL
 * @return a representation of the parsed SQL statement
 */
protected ParsedSql getParsedSql(String sql) {
 if (getCacheLimit() <= 0) {
  return NamedParameterUtils.parseSqlStatement(sql);
 }
 synchronized (this.parsedSqlCache) {
  ParsedSql parsedSql = this.parsedSqlCache.get(sql);
  if (parsedSql == null) {
   parsedSql = NamedParameterUtils.parseSqlStatement(sql);
   this.parsedSqlCache.put(sql, parsedSql);
  }
  return parsedSql;
 }
}

}
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*/

package org.springframework.jdbc.support.xml;

import org.springframework.dao.InvalidDataAccessApiUsageException;
```

```
/**
* Exception thrown when the underlying implementation does not support the
* requested feature of the API.
*
* @author Thomas Risberg
* @since 2.5.5
*/
@SuppressWarnings("serial")
public class SqlXmlFeatureNotImplementedException extends InvalidDataAccessApiUsageException {

 /**
  * Constructor for SqlXmlFeatureNotImplementedException.
  * @param msg the detail message
  */
 public SqlXmlFeatureNotImplementedException(String msg) {
  super(msg);
 }

 /**
  * Constructor for SqlXmlFeatureNotImplementedException.
  * @param msg the detail message
  * @param cause the root cause from the data access API in use
  */
 public SqlXmlFeatureNotImplementedException(String msg, Throwable cause) {
  super(msg, cause);
 }
}
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* limitations under the License.
*/

package org.springframework.jdbc.support.nativejdbc;

/**
* Simple implementation of the {@link NativeJdbcExtractor} interface.
* Assumes a pool that wraps Connection handles but not DatabaseMetaData:
```

```
* In this case, the underlying native Connection can be retrieved by simply
* calling {@code conHandle.getMetaData().getConnection()}.
* All other JDBC objects will be returned as passed in.
*
* <p>This extractor should work with any pool that does not wrap DatabaseMetaData,
* and will also work with any plain JDBC driver. Note that a pool can still wrap
* Statements, PreparedStatements, etc: The only requirement of this extractor is
* that {@code java.sql.DatabaseMetaData} does not get wrapped, returning the
* native Connection of the JDBC driver on {@code metaData.getConnection()}.
*
* <p>Customize this extractor by setting the "nativeConnectionNecessaryForXxx"
* flags accordingly: If Statements, PreparedStatements, and/or CallableStatements
* are wrapped by your pool, set the corresponding "nativeConnectionNecessaryForXxx"
* flags to "true". If none of the statement types is wrapped - or you solely need
* Connection unwrapping in the first place -, the defaults are fine.
*
* <p>SimpleNativeJdbcExtractor is a common choice for use with OracleLobHandler,
* which just needs Connection unwrapping via the
* {@link #getNativeConnectionFromStatement} method. This usage will work
* with almost any connection pool.
*
* <p>For full usage with JdbcTemplate, i.e. to also provide Statement unwrapping:
* <ul>
* <li>Use a default SimpleNativeJdbcExtractor for Resin and SJSAS (no JDBC
* Statement objects are wrapped, therefore no special unwrapping is necessary).
* <li>Use a SimpleNativeJdbcExtractor with all "nativeConnectionNecessaryForXxx"
* flags set to "true" for C3P0 (all JDBC Statement objects are wrapped,
* but none of the wrappers allow for unwrapping).
* <li>Use a CommonsDbcpNativeJdbcExtractor for Jakarta Commons DBCP respectively
* a JBossNativeJdbcExtractor for JBoss (all JDBC Statement objects are wrapped,
* but all of them can be extracted by casting to implementation classes).
* </ul>
*
* @author Juergen Hoeller
* @since 05.12.2003
* @see #setNativeConnectionNecessaryForNativeStatements
* @see #setNativeConnectionNecessaryForNativePreparedStatements
* @see #setNativeConnectionNecessaryForNativeCallableStatements
* @see Jdbc4NativeJdbcExtractor
* @see org.springframework.jdbc.core.JdbcTemplate#setNativeJdbcExtractor
* @see org.springframework.jdbc.support.lob.OracleLobHandler#setNativeJdbcExtractor
*/
public class SimpleNativeJdbcExtractor extends NativeJdbcExtractorAdapter {

 private boolean nativeConnectionNecessaryForNativeStatements = false;

 private boolean nativeConnectionNecessaryForNativePreparedStatements = false;
```

```
 private boolean nativeConnectionNecessaryForNativeCallableStatements = false;


 /**
  * Set whether it is necessary to work on the native Connection to
  * receive native Statements. Default is "false". If true, the Connection
  * will be unwrapped first to create a Statement.
  * <p>This makes sense if you need to work with native Statements from
  * a pool that does not allow to extract the native JDBC objects from its
  * wrappers but returns the native Connection on DatabaseMetaData.getConnection.
  * <p>The standard SimpleNativeJdbcExtractor is unable to unwrap statements,
  * so set this to true if your connection pool wraps Statements.
  * @see java.sql.Connection#createStatement
  * @see java.sql.DatabaseMetaData#getConnection
  */
 public void setNativeConnectionNecessaryForNativeStatements(boolean
nativeConnectionNecessaryForNativeStatements) {
  this.nativeConnectionNecessaryForNativeStatements = nativeConnectionNecessaryForNativeStatements;
 }

 @Override
 public boolean isNativeConnectionNecessaryForNativeStatements() {
  return this.nativeConnectionNecessaryForNativeStatements;
 }

 /**
  * Set whether it is necessary to work on the native Connection to
  * receive native PreparedStatements. Default is "false". If true,
  * the Connection will be unwrapped first to create a PreparedStatement.
  * <p>This makes sense if you need to work with native PreparedStatements from
  * a pool that does not allow to extract the native JDBC objects from its
  * wrappers but returns the native Connection on Statement.getConnection.
  * <p>The standard SimpleNativeJdbcExtractor is unable to unwrap statements,
  * so set this to true if your connection pool wraps PreparedStatements.
  * @see java.sql.Connection#prepareStatement
  * @see java.sql.DatabaseMetaData#getConnection
  */
 public void setNativeConnectionNecessaryForNativePreparedStatements(boolean nativeConnectionNecessary) {
  this.nativeConnectionNecessaryForNativePreparedStatements = nativeConnectionNecessary;
 }

 @Override
 public boolean isNativeConnectionNecessaryForNativePreparedStatements() {
  return this.nativeConnectionNecessaryForNativePreparedStatements;
 }

 /**
  * Set whether it is necessary to work on the native Connection to
```

```
 * receive native CallableStatements. Default is "false". If true,
 * the Connection will be unwrapped first to create a CallableStatement.
 * <p>This makes sense if you need to work with native CallableStatements from
 * a pool that does not allow to extract the native JDBC objects from its
 * wrappers but returns the native Connection on Statement.getConnection.
 * <p>The standard SimpleNativeJdbcExtractor is unable to unwrap statements,
 * so set this to true if your connection pool wraps CallableStatements.
 * @see java.sql.Connection#prepareCall
 * @see java.sql.DatabaseMetaData#getConnection
 */
public void setNativeConnectionNecessaryForNativeCallableStatements(boolean nativeConnectionNecessary) {
 this.nativeConnectionNecessaryForNativeCallableStatements = nativeConnectionNecessary;
}

@Override
public boolean isNativeConnectionNecessaryForNativeCallableStatements() {
 return this.nativeConnectionNecessaryForNativeCallableStatements;
}

}
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* limitations under the License.
*/

package org.springframework.jdbc.datasource;

import java.sql.Connection;

import org.springframework.util.Assert;

/**
* Simple implementation of the {@link ConnectionHandle} interface,
* containing a given JDBC Connection.
*
* @author Juergen Hoeller
* @since 1.1
```

```
*/
public class SimpleConnectionHandle implements ConnectionHandle {

 private final Connection connection;


 /**
  * Create a new SimpleConnectionHandle for the given Connection.
  * @param connection the JDBC Connection
  */
 public SimpleConnectionHandle(Connection connection) {
  Assert.notNull(connection, "Connection must not be null");
  this.connection = connection;
 }

 /**
  * Return the specified Connection as-is.
  */
 @Override
 public Connection getConnection() {
  return this.connection;
 }

 /**
  * This implementation is empty, as we're using a standard
  * Connection handle that does not have to be released.
  */
 @Override
 public void releaseConnection(Connection con) {
 }


 @Override
 public String toString() {
  return "SimpleConnectionHandle: " + this.connection;
 }

}
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* limitations under the License.
*/

package org.springframework.jdbc.datasource.embedded;

import java.sql.Driver;

import javax.sql.DataSource;

import org.springframework.jdbc.datasource.SimpleDriverDataSource;

/**
* Creates a {@link SimpleDriverDataSource}.
*
* @author Keith Donald
* @author Juergen Hoeller
* @since 3.0
*/
final class SimpleDriverDataSourceFactory implements DataSourceFactory {

 private final SimpleDriverDataSource dataSource = new SimpleDriverDataSource();

 @Override
 public ConnectionProperties getConnectionProperties() {
  return new ConnectionProperties() {
   @Override
   public void setDriverClass(Class<? extends Driver> driverClass) {
    dataSource.setDriverClass(driverClass);
   }

   @Override
   public void setUrl(String url) {
    dataSource.setUrl(url);
   }

   @Override
   public void setUsername(String username) {
    dataSource.setUsername(username);
   }

   @Override
   public void setPassword(String password) {
    dataSource.setPassword(password);
   }
  };
```

```
 }

 @Override
 public DataSource getDataSource() {
  return this.dataSource;
 }

}
/*
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* limitations under the License.
*/

package org.springframework.jdbc.datasource;

import java.sql.Connection;
import java.sql.Driver;
import java.sql.SQLException;
import java.util.Properties;

import org.springframework.beans.BeanUtils;
import org.springframework.util.Assert;

/**
* Simple implementation of the standard JDBC {@link javax.sql.DataSource} interface,
* configuring a plain old JDBC {@link java.sql.Driver} via bean properties, and returning
* a new {@link java.sql.Connection} from every {@code getConnection} call.
*
* <p><b>NOTE: This class is not an actual connection pool; it does not actually
* pool Connections.</b> It just serves as simple replacement for a full-blown
* connection pool, implementing the same standard interface, but creating new
* Connections on every call.
*
* <p>In a J2EE container, it is recommended to use a JNDI DataSource provided by
* the container. Such a DataSource can be exposed as a DataSource bean in a Spring
* ApplicationContext via {@link org.springframework.jndi.JndiObjectFactoryBean},
* for seamless switching to and from a local DataSource bean like this class.
```

```
*
* <p>If you need a "real" connection pool outside of a J2EE container, consider
* <a href="http://jakarta.apache.org/commons/dbcp">Apache's Jakarta Commons DBCP</a>
* or <a href="http://sourceforge.net/projects/c3p0">C3P0</a>.
* Commons DBCP's BasicDataSource and C3P0's ComboPooledDataSource are full
* connection pool beans, supporting the same basic properties as this class
* plus specific settings (such as minimal/maximal pool size etc).
*
* @author Juergen Hoeller
* @since 2.5.5
* @see DriverManagerDataSource
*/
public class SimpleDriverDataSource extends AbstractDriverBasedDataSource {

 private Driver driver;


 /**
  * Constructor for bean-style configuration.
  */
 public SimpleDriverDataSource() {
 }

 /**
  * Create a new DriverManagerDataSource with the given standard Driver parameters.
  * @param driver the JDBC Driver object
  * @param url the JDBC URL to use for accessing the DriverManager
  * @see java.sql.Driver#connect(String, java.util.Properties)
  */
 public SimpleDriverDataSource(Driver driver, String url) {
  setDriver(driver);
  setUrl(url);
 }

 /**
  * Create a new DriverManagerDataSource with the given standard Driver parameters.
  * @param driver the JDBC Driver object
  * @param url the JDBC URL to use for accessing the DriverManager
  * @param username the JDBC username to use for accessing the DriverManager
  * @param password the JDBC password to use for accessing the DriverManager
  * @see java.sql.Driver#connect(String, java.util.Properties)
  */
 public SimpleDriverDataSource(Driver driver, String url, String username, String password) {
  setDriver(driver);
  setUrl(url);
  setUsername(username);
  setPassword(password);
 }
```

```
/**
 * Create a new DriverManagerDataSource with the given standard Driver parameters.
 * @param driver the JDBC Driver object
 * @param url the JDBC URL to use for accessing the DriverManager
 * @param conProps JDBC connection properties
 * @see java.sql.Driver#connect(String, java.util.Properties)
 */
public SimpleDriverDataSource(Driver driver, String url, Properties conProps) {
 setDriver(driver);
 setUrl(url);
 setConnectionProperties(conProps);
}


/**
 * Specify the JDBC Driver implementation class to use.
 * <p>An instance of this Driver class will be created and held
 * within the SimpleDriverDataSource.
 * @see #setDriver
 */
public void setDriverClass(Class<? extends Driver> driverClass) {
 this.driver = BeanUtils.instantiateClass(driverClass);
}

/**
 * Specify the JDBC Driver instance to use.
 * <p>This allows for passing in a shared, possibly pre-configured
 * Driver instance.
 * @see #setDriverClass
 */
public void setDriver(Driver driver) {
 this.driver = driver;
}

/**
 * Return the JDBC Driver instance to use.
 */
public Driver getDriver() {
 return this.driver;
}


@Override
protected Connection getConnectionFromDriver(Properties props) throws SQLException {
 Driver driver = getDriver();
 String url = getUrl();
 Assert.notNull(driver, "Driver must not be null");
```

```
 if (logger.isDebugEnabled()) {
  logger.debug("Creating new JDBC Driver Connection to [" + url + "]");
 }
 return driver.connect(url, props);
}

}
```

1.127 spring-jdbc 4.2.3.RELEASE

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1.128 spring-jdbc 4.1.1.RELEASE

1.129 spymemcached 2.8.4

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*/
```

1.130 stax-api 1.0.1

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1.131 tomcat-jdbc 8.0.28

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